SONY

KV-FX2921A/B

MODEL

SERVICE MANUAL

KV-FX2921B

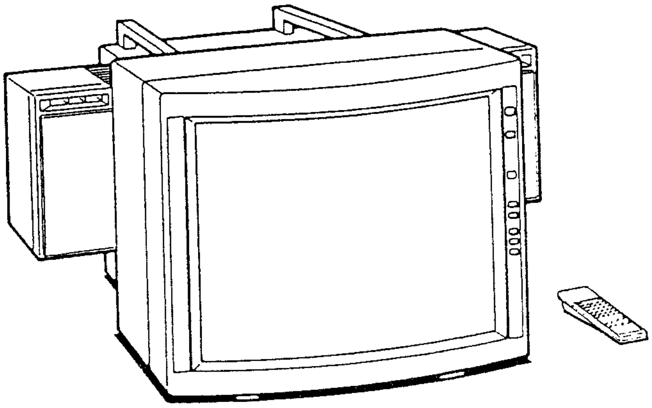
53/

RM-698/SS-XT291

SERVICE MANUAL

French Model

Chassis No. SCC-D72A-A



CE-1 CHASSIS

Note: The service manual for SS-XT291 has been issued separately.

MODELS OF THE SAME SERIES	
KV-FX2921B	

SPECIFICATIONS

Television system	B/G/H, I, L
Color system	PAL, SECAM, NTSC3.58, NTSC4.43
Channel coverage	VHF : E2-E12, F2-F10 UHF : E21-E69, F21-F69, B21-B69 CABLE : S01-S03, S1-S41
Picture tube	Trinitron tube Approx. 72.4 cm (29 inches) (Approx. 68 cm picture measured diagonally 110°-degree deflection
Inputs	⊖ 1 21-pin connector : CENELEC standard including RGB input. ⊖ 2 21-pin connector : including S video input ⊖ 3 Video, Audio : phono jack
Outputs	21-pin connector : CENELEC standard Headphones jack : stereo minijack External speaker terminals : 2-pin DIN Audio output jacks : phono jack (output dependent upon TV settings)

Sound output	20 W + 20 W (music power)
Power consumption	171 Wh
Dimensions	Approx. 666x532x526.5mm (w/h/d)
Weight	Approx. 52kg
Supplied accessories	RM-698 Remote Commander (1) IEC designation R6 batteries (2) SS-XT291 Detachable Speaker (1 set Speaker cord with plug (2)

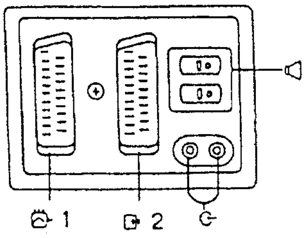
Design and specifications are subject to change without notice.

MICROFILM

TRINITRON® COLOR TV

SONY®

21 Pin Connector (⇦ 1 ⇨ 2)



Pin No	1	2	Signal	Signal level
1	○	○	Audio output B (right)	Standard level : 0.5Vrms Output impedance : Less than 1kohm*
2	○	○	Audio input B (right)	Standard level : 0.5Vrms Input impedance : More than 10kohms*
3	○	○	Audio output A (left)	Standard level : 0.5Vrms Output impedance : Less than 1kohm*
4	○	○	Ground (audio)	
5	○	○	Ground (blue)	
6	○	○	Audio input A (left)	Standard level : 0.5Vrms Input impedance : More than 10kohms*
7	○	●	Blue input	0.7V±3dB. 75ohms. positive
8	○	○	Function select (AV control)	High state (9.5−12 V) : Part mode Low state (0−2 V) : TV mode Input impedance : More than 10kohms Input capacitance : Less than 2 nF
9	○	○	Ground (green)	
10	○	○	Open	
11	○	●	Green	Green signal : 0.7V±3dB. 75ohms. positve
12	○	○	Open	
13	○	○	Ground (red)	
14	○	○	Ground (blanking)	
15	○	−	Red input	0.7V±3dB. 75ohms. positive
	−	○	(S signal) croma input	0.3V±3dB. 75ohms. positive
16	○	●	Blanking input (Ys signal)	High state (1−3 V) Low state (0−0.4 V) Input impedance : 75ohmes
17	○	○	Ground (video output)	
18	○	○	Ground (video input)	
19	○	○	Video output	1V±3dB. 75ohms. positive Sync : 0.3V (−3. +10dB)
20	○	−	Video input	1 V±3dB. 75ohms. positive Sync : 0.3V (−3. +10dB)
	−	○	Video Input/Y (S signal)	1 V±3dB. 75ohms. positive Sync : 0.3V (−3. +10dB)
21	○	○	Common ground (plug. shield)	

○ connected ● unconnected (open) * at 20 Hz−20 kHz

WARNING !!

AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION!!

AFIN D'EVITER TOUT RISQUE D'ELECTROCUTION PROVENANT D'UN CHÂSSIS SOUS TENSION, UN TRANSFORMATEUR D'ISOLEMENT DOIT ETRE UTILISÉ LORS DE TOUT DÉPANNAGE.
LE CHÂSSIS DE CE RÉCEPTEUR EST DIRECTEMENT RACCORDÉ À L'ALIMENTATION SECTEUR.

ATTENTION AUX COMPOSANTS RELATIFS À LA SÉCURITÉ!!

LES COMPOSANTS IDENTIFIÈS PAR UNE TRAME ET PAR UNE MARQUE ⚠ SUR LES SCHÉMAS DE PRINCIPE, LES VUES EXPLOSÉES ET LES LISTES DE PIECES SONT D'UNE IMPORTANCE CRITIQUE POUR LA SÉCURITÉ DU FONCTIONNEMENT. NE LES REMPLACER QUE PAR DES COMPOSANTS SONY DONT LE NUMÉRO DE PIÈCE EST INDIQUÉ DANS LE PRÉSENT MANUEL OU DANS DES SUPPLÉMENTS PUBLIÉS PAR SONY.

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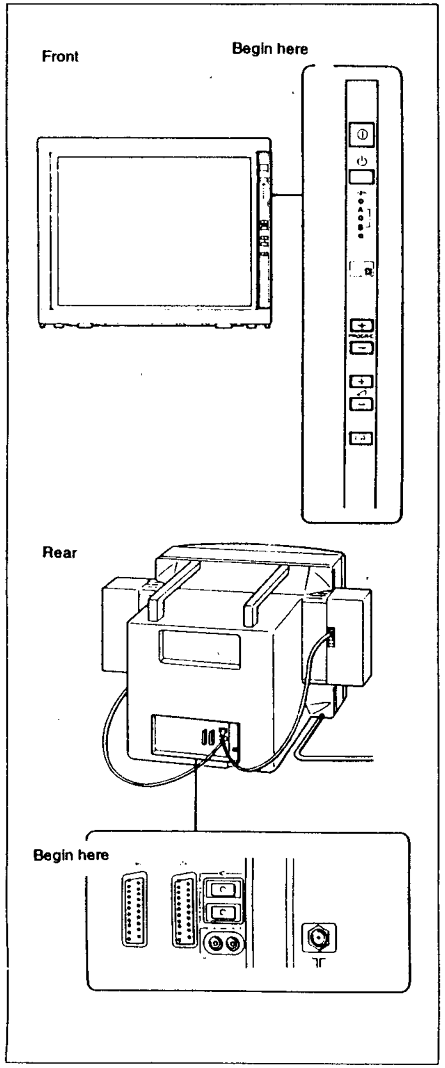
SECTION 1
GENERAL

1-1. IDENTIFICATION OF CONTROLS (INDEX)

Television receiver



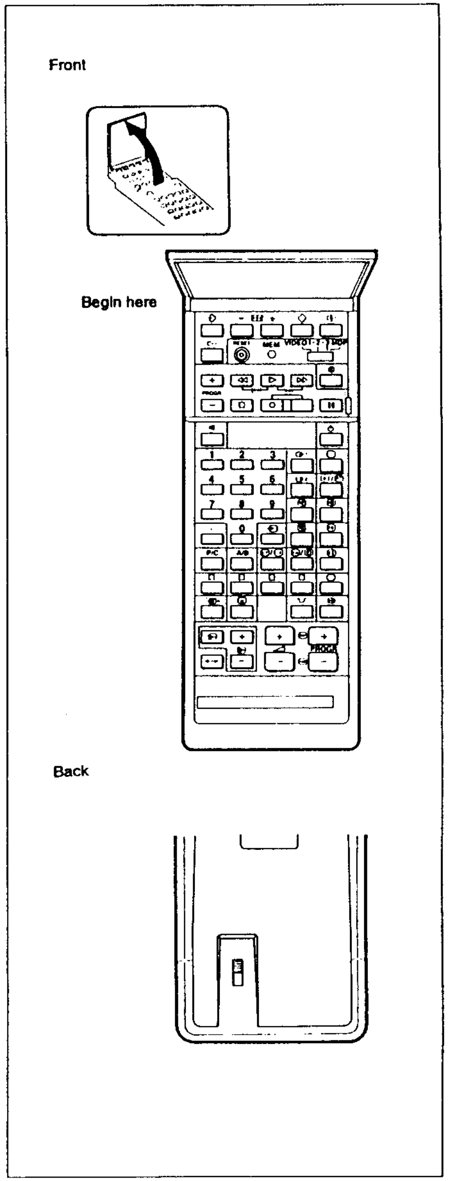
Front

Symbole	Function
⏼	Main power on/off switch
⏻	Standby display
-⊞>	Noise reduction function indicator
A	A mode indicator
B	B mode indicator
🅁	Remote control sensor
PROGR/C	The program or channel search keys. Likewise used to go from the standby mode to the TV mode when the remote control is not used.
⊿	Sound level adjustment keys TV/VIDEO selector
⊂←	Headphone jack (mini stereo jack)
∩	Located on the right side
On-screen Display	Appears in the upper right corner and the above the bar. It indicates the numbers of the programs, the numbers of the broadcasing channel, the television system, the entry modes and settings of the picture and sound.
Bar display	Appears on the top of the screen, it indicates the level of the picture and sound adjustments.

Rear

Symbole	Function
⊂→2	21 pin input connector. Connects it to a VTR equipped with an S video output jack, to an 8 mm format camescope, etc.
⊂→1	21 pin input connector. Connects it to a VTR, a computer, etc.
🕨 L/G/S	Terminal for left speaker.
🕨 R/D/D	Terminal for right speaker.
⊂→ R/D/D	Right channel jack for audio output
⊂→ L/G/S	Left channel jack for audio output
Ψ	Antenna jack

Remote commander



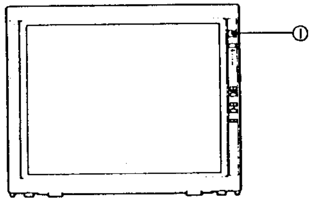
Symbole	Function
-◇	Presetting key
⇹	Tuning key
◇	Save key
⊛	Selector of the television system
VIDEO 1/2/3/MDP	Video mode selector for learning function
MEM	Memorization/response indicator
RESET	Reset key for learning function
C--	Erase key
PROGR	Program search key for the video set
Keys ◀◀, ▶, ▶▶, ■, ●, ❚❚	Operating keys for the video set
⏼	Power on/off key of video set
🔇	Mute activation key
⏻	Power on/off key (standby)
▭	Television key Use to change from standby mode, from the video mode or from the teletext mode to the TV mode.
⊂1 ⊂2	Entry keys
1 – 9, 0	Numerical program keys
-/--	Use -/-- to choose a program higher than 9.
⊖	Teledistribution key
◎	Actual time display key Available when the chosen channel transmits in teletext mode
⊕	Key for the appearance/ disappearance of display on screen
A/B	Sound mode A or B selector
P/C	Program/channel key
-⊞>	Noise reduction key
⊚	Image freeze key
⊽	Physiological correction key
⊕	Spatial sound key
PROGR	Program search key
⊿	Sound level adjustment keys
⊞	Image and sound adjustment keys
→•←	Reset key Used to reset the settings to those set at the factory.
USE/MEM	Usage/memorization selector for learning function

The keys indicated in green are intended for the teletext mode.

The keys indicated in red, green, yellow, blue and ▢ are indicated for the teletext TOP mode.

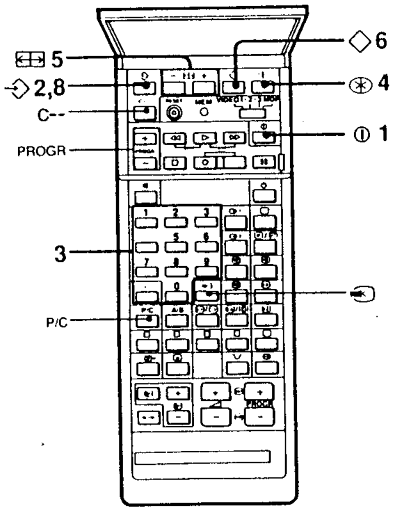
1-2. POWER ON/OFF

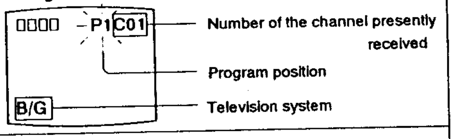
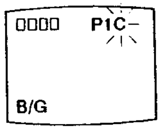
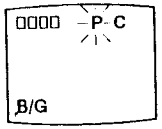
Press (⏼) to turn the television power on. To turn the power off for an extended period, for example, before going to bed or going out, press (⏼) again.
In order to cut off the power for only a short period, use the (⏻) key of the remote control



1-3. PRESETTING OF THE CHANNELS

As soon as the television channels have been preset by the numerical keys of the remote control, you can view the desired programs by pressing a single key.
During the presetting, the television sequentially tunes in a maximum of 60 (0 to 59) active channels in the usage region, from lower to higher frequencies and vice versa, so that you can decide whether or not to memorize each channel. The presetting is done using the remote control.

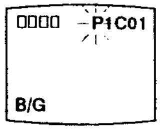
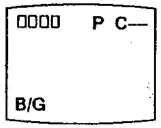


Step	Results
1 Press (⏼) to turn on the power.	The indicator (⏼) of the television lights up.
2 Press ⟡ to set the presetting mode.	"P" begins to flash.  0000 -P1C01 B/G Number of the channel presently received Program position Television system
3 Press the numerical program keys to choose the program to be preset first. Example: • To begin with position 1, press the program 1 number key. • To choose a program position above 9, press -/—. Example: To choose the program position 23, press -/—, 2 and 3 in this order.	—
4 Press ⊛ to choose the television system.	With each push of the key ⊛, the television system display will change as follows. B/G → L → I (→ B/G) L: France I: United Kingdom/ Ireland B/G: Other Western European countries (See "Receivable Channels and Channel Display" page 28).
5 Press ⇹ + or – to initiate the channel search forward (from the lower to higher frequencies) or backward (from the higher to lower frequencies).	"P" stops flashing, while "C" begins to flash. When a channel is tuned in, the search stops. 
6 If this channel is one that you intend to use often, press the ◇ to put it in the memory. **If the channel is not one you want, go back to step 5.**	"C" stops flashing, while "P" begins to flash. 
7 Repeat the steps 3 to 6 for all the desired channels.	—
8 Press ⟡ to go back to the viewing mode of the television.	—

Skipping the positions of non-used programs

You can ignore the program positions that you do not wish to use. This function is used in the following cases :

- If the channel tuned in is too weak and has interferene due to the low sound signal strength.
- If only 20 channels have been tuned in and you wish to ignore the 40 vacant positions in your region.
- If the same programs are tuned in on different channels in your region.

Step	Results
1 **Press ◇ to go to the presetting mode.**	
2 **Press the key of the program number to be ignored.**	—
3 **Press the C— key.**	
4 **Press ◇ .**	—
5 **Press ◇ to return to the viewing mode of the television.**	—

Direct presetting of the channels

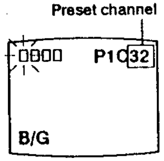
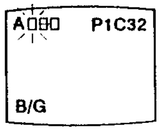
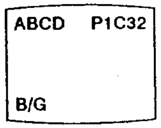
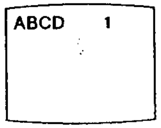
If you already know the numbers of the channels, you can preset them directly.

Step
Follow the below steps 1 to 4 ("Presetting of the channels", page 9), then proceed as follows:
5 **Press P/C.**
6 **Choose the number of the desired channel by sequentially engaging the two numerical program keys.** Example: To tune in channel 32, press 3, then 2. To tune in channel 4, press 0, then 4. To tune in channel of the teledistribution, press ⊗ , (⊗ appears on the screen), then sequentially push in the two numerical program keys. **Remark:** Upon engaging the two numerical program keys, press the second **within the 6 seconds** that follow the pushing of the first, if not the operation will be canceled and the display will return to the original display.
7 **Press ◇ to memorize the channel.**
8 **Repeat the steps 6 to 8 for the other channels.**
9 **Press ◇ to return the the viewing mode of the television.**

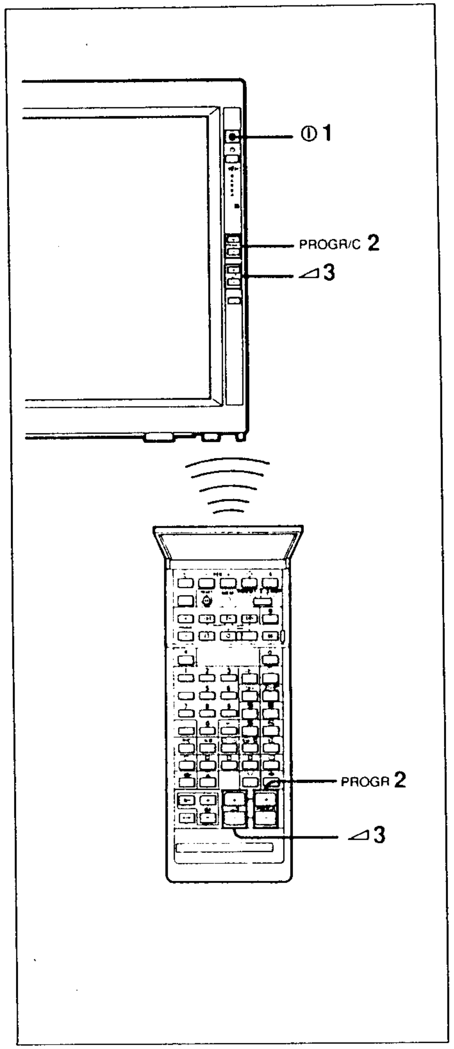
If you forget the number of the channel, at the time of direct presetting of the channels and you wish to preset the channel using the tuning keys, press the P/C key again.

Designation of a channel

After presetting, you can assign a 4 character name to the preset channels.

Step	Results
1 **Choose the program number by pressing the numerical program keys of the remote control.**	—
2 **Press ◇ to go to the presetting mode.**	—
3 **Press ⊙.**	The column at the right end of the channel name flashes.  Preset channel □□□□ P1C32 B/G
4 **Press ⊙ + or - to choose an alphabetic or numerical character.**	—
5 **Press ⊙.**	The second column flashes.  A□□□ P1C32 B/G
6 **Repeat the steps 4 and 5 to enter the other characters.**	—
7 **Press ◇.** If the name has not been memorized, return to the step 2.	In this step, all the data of channel displayed on the screen are memorized.  ABCD P1C32 B/G
8 **Press ◇ to return to the viewing mode of the television.**	 ABCD 1

1-4. SETTING THE STANDBY MODE

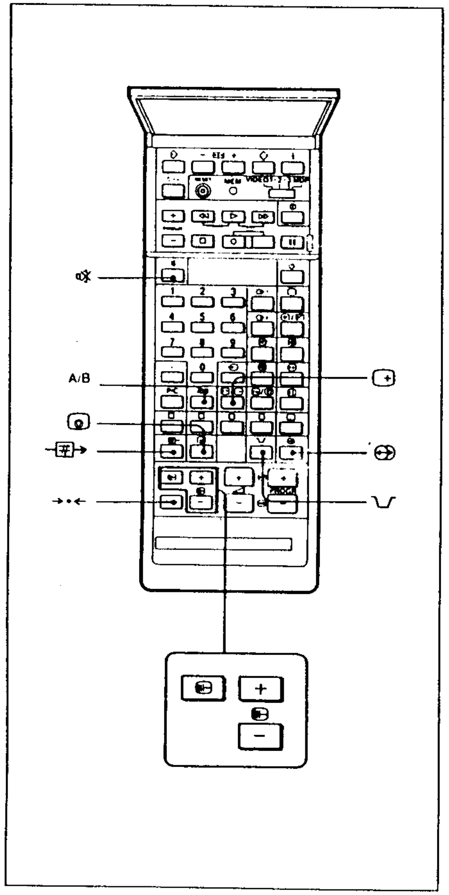


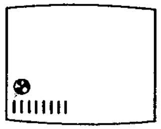
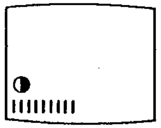
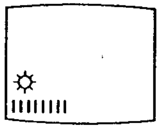
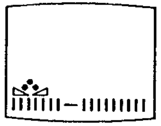
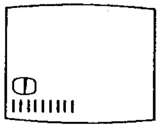
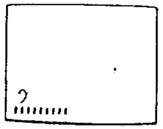
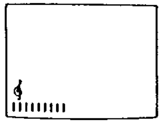
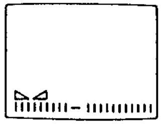
In Order to	On the Remote Control	On the Front Panel
Turn off the television power a short time (set on standby).	Press ⏻.	(⏻ lights up.)
Turn on the television power by means of the standby mode.	Press the desired numerical program key.	Press PROGR/C.
Turn the television power completely off: • Before going to bed or going out.	—	Press ⏼.
• Before going out, leaving on vacation, etc.	—	Disconnect the power cord at the rear of the wall socket.

Remarks:
When you go from the TV mode to the standby mode, there a small delay may occur before the picture reappears.

1-5. ADJUSTMENT OF THE PICTURE AND SOUND

In order to obtain an excellent quality picture, you can adjust the image and the sound in relation to the brightness of the location, of the input source and other factors, by using the remote control.



Adjustment Parameters	Operation
Color intensity 	Press ⊡ until the ⊛ appears, accompanied by a barred display. Then press the ⊡ + to accent the colors or – to reduce them. ⊛ and the bars appear several seconds later.
Contrast 	Press the ◑ until the ⊡ appears, accompanied by a barred display. Then press the ⊡ + to accent the contrast or – to reduce it. ◑ and the bars appear several seconds later.
Brightness 	Press the ⊡ until the ☼ appears, accompanied by a barred display. Then press the ⊡ + to brighten the picture or – to darken it. ☼ and the bars appear several seconds later.
Tint (only for color NTSC system) 	Press the ⊡ until the ◬ appears, accompanied by a barred display. Then press the ⊡ + to add greenness the skin tones or – to add redness to them. ◬ and the bars appear several seconds later.
Sharpness 	Press the ⊡ until the ⦶ appears, accompanied by a barred display. Then press the ⊡ + to accent the sharpness of the picture or – to reduce it. ⦶ and the bars appear several seconds later. **Remark:** When the RGB entry mode (⊙ [illegible]en, the sharpness c[illegible] adjusted.
Low pitch sounds 	Press the ⊡ until the 𝄢 appears, accompanied by a barred display. Then press the ⊡ + to increase the response for low pitch sound or – to reduce it. 𝄢 and the bars appear several seconds later.
High pitch sounds 	Press the ⊡ until the 𝄞 appears, accompanied by a barred display. Then press the ⊡ + to increase the response for high pitch sound or – to reduce it. 𝄞 and the bars appear several seconds later.
Balance between the left and right channels 	Press the ⊡ until the ⊳⊲ appears, accompanied by a barred display. Then press the ⊡ + to accentute the sound level of the right speaker, or – to accentuate the sound level of the left speaker. ⊳⊲ and the bars appear several seconds later.
To reinitialize all the adjustments to those effected at the factory	Press the →•←
To accent the high and low tonality at low sound volume	Press the The indicator appears on the screen. To re-establish the original sound, press this key again. The indicator appears for several seconds on the screen, then goes out.
To obtain a spatial sound effect	Press the The indicator appears on the screen. To re-establish the original sound, press this key again. The indicator appears for several seconds on the screen, then goes out.
To view a fixed picture	Press the To release this function, press the key again.
To reduce noise	If the picture is subject to parasitic noise, press the The indicator lights up on the screen.
To cause the display to appear on the screen	Press the To make it disappear, press the key again.
To muffle the sound	Press the To re-establish the previous sound, press the key again.

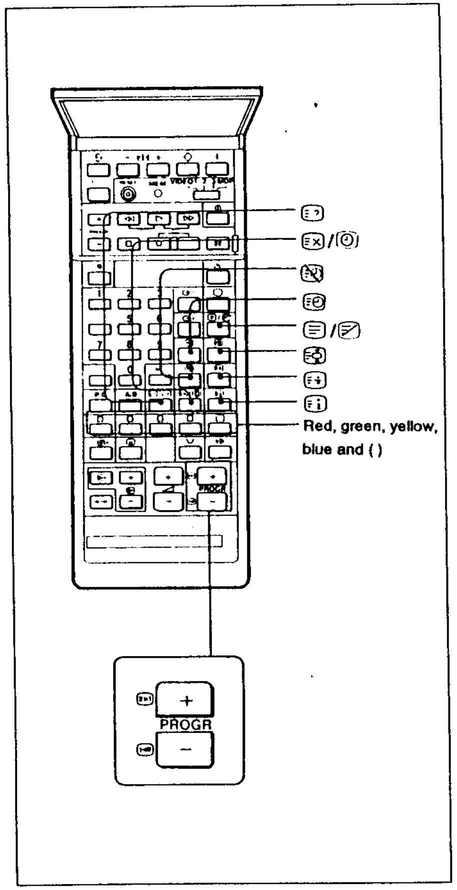
Listening to a bilingual program

Choose the A or B mode, by pressing the A/B key on the remote control.
With each push on his key, the mode and the indicator change as follows.

A (the indicator A lights.)
B (the indicator B lights.)
A and B (the indicators A and B light.)

1-6. VIEWING OF THE TELETEXT

You can benefit from the teletext services through the remote control.
The keys intended for this are indicated in green on the remote control.



Operation:

1 **Turn the television power on.**
2 **Choose the television channel for the teletext service.**
3 **Press the ▤/▨ (text/mix) to cause the teletext service to appear.**
4 **Enter the three numbers for the page desired by the numerical program keys.**

If an error is committed, finish the entry sequence by randomly typing numbers, then, re-enter the correct page number.
The requested page appears.

To return to the television viewing mode, press the ▢ (TV) of the remote control.

In order to receive the teletext services directly from the standby mode, press the ▤/▨ (text/mix).

To receive the teletext service on another television channel

1 Press ▢ (TV) to return to the television viewing mode.
2 Choose another television channel.
3 Press the ▤/▨ (text/mix).

To call the index page

Press the ⊡i (index).
If the necessary signal is not emitted, the page 100 appears.

To access the following or preceding page

Press the key ⊡ + (following page) or ⊡ − (preceding page).

To superimpose the teletext on the TV image

Press the ▤/▨ (text/mix) twice from the TV mode.
Again press the ▤/▨ (text/mix) to go back to the display of the teletext.

To make the teletext disappear and make the TV picture reappear

Press the ⊠/◎ (erase/time).
This key is operable from the teletext mode (▤) and from the displayed mode ▨ (mix).
To return to ordinary teletext reception, press the ▤/▨ (text/mix).

To prevent that a teletext page is updated or modified

Press the ⊞ (maintain). The symbol ⊞ appears on the screen.

⊞

To return to ordinary teletext reception, press the ▤/▨ (text/mix).

To enlarge the teletext display

Press the ⊡↕ (enlargement of the display) to enlarge the upper half of the display. Push it in again to enlarge the lower half of the display. Push it in a third time to return to the normal display.

To reveal hidden information, such as responses to an inquiry

Press the ⊡? (revelation) key.
Press again to hide information.

To view a TV program while waiting the display of the requested page

1 Request a new page.
2 Press the ⊠/◎ (text/mix) to view the televised program. The number of the requested page appears above the screen. When the requested page is found, its number appears in the upper left corner of the screen.

P101

To look at this page, press the ▤/▨ (text/mix).

To display a desired page at the determined moment

1 Call up a coded time page (for example, the alarm page).
2 Press the ⊡◷ (engagement of the time page).
"T****" appears on the bottom of the screen.

T****

3 Enter the desired time by the numerical program keys, by typing four numbers. For example, type 0730 for seven thirty.

T0730

To watch the program televised by the required time, press the ⊠/◎ (erase/time). At the preset time, the page number appears on the bottom of the screen. To look at this page, press the ▤/▨ (text/mix).
To cancel the request, first be sure that the teletext page is displayed, then press the ⊞ (time page out of service).

To display the actual time while watching a TV program

Press the ⊠/◎ (erase/ time) of the remote control.
The actual time appears in the upper right corner of the screen. To make this display disappear, again press the key ⊠/◎
The displayed time is identical to the indication of the time in the teletext mode. This function is only operable when a teletext service is transmitted on the selected channel.

Access to pages by category — TOP teletext function

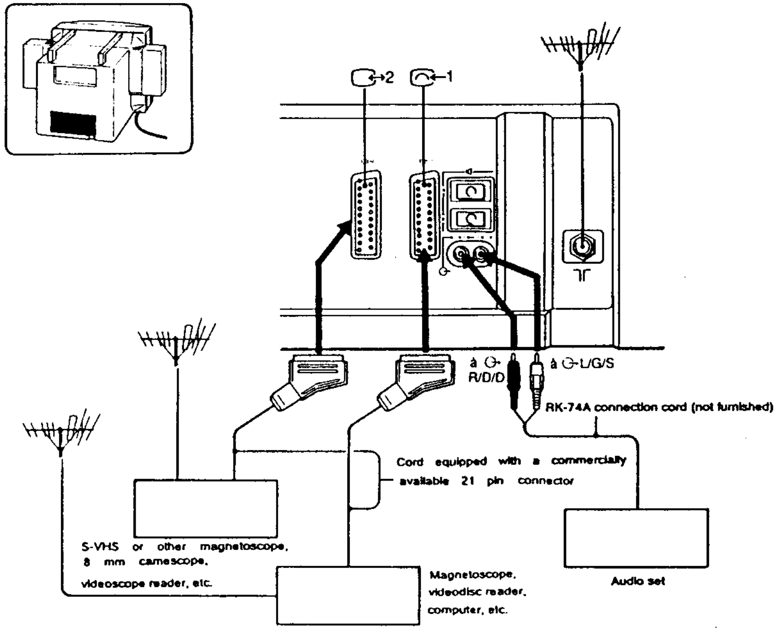
When the television receives TOP teletext signals (in the F.R.G. and in th[illegible]egions, you can access pages by category [illegible]y number. This permits you to rapidly access information when you do not know the desired page number.

Operation

Step	Results
1 Press the ▭ (TOP) key.	A maximum of 8 blocks of categories (example: sports, information and meteorological bulletins) appear.
2 Choose the block of the category by pressing the following block key several times (blue key).	Each time this key is pressed, the heading groups of the category block chosen (for example, information on the economy, on education or on politics) appear.
3 Choose the desire group of headings by pressing the following block key (yellow key).	One of the information pages of the selected group appears.
4 Choose the desired page. **Press the green key to go to the following page and press the red key to return to the preceding page.**	—

1-7. CONNECTION OF OTHER APPARATUS

You can obtain pictures of video banks and optical video discs, as well as stereophonic sound, by connecting a video or audio set to this television.


2
1
à ⊖ R/D/D
à ⊖ L/G/S
RK-74A connection cord (not furnished)
Cord equipped with a commercially available 21 pin connector
S-VHS or other magnetoscope, 8 mm camescope, videoscope reader, etc.
Magnetoscope, videodisc reader, computer, etc.
Audio set

The magnetoscope can also be connected by the ᅲ jack of this set.

To watch pictures coming from the 21 pin VIDEO 1 connector (⊕—1)

In Order to	On the Remote Control	On the Television	Display on the Screen
Watch a video signal	Press the ⊕1 .	Press the ⊕ *.	⊕1 (VIDEO 1)
Watch an RGB signal coming, for example, from a computer.	Press the ⊕1 twice	Press the ⊕ *.	⊕ (RGB)

To watch pictures coming from the 21 pin VIDEO 2 connector (⊕→2)

In Order to	On the Remote Control	On the Television	Display on the Screen
Watch a video signal	Press the ⊕2 .	Press the ⊕ *.	⊕2 (VIDEO 2)
Watch a signal coming from a magnetoscope equipped with an S VIDEO output.	Press the ⊕2 2 twice	Press the ⊕ *.	⊕S (S VIDEO)

To return to the viewing mode of the television from the VIDEO 1, RGB, VIDEO 2 or S VIDEO mode

Press the ☐ (TV) or the numerical program key of the remote control.

Concerning video S input

The video signals are divided into Y signals (brightness or brilliance) and C (chrominance).

Normally, these two types of signals are combined in a magnetoscope and output as a single signal, then sent to a television. The separation of the Y and C signals prevents one from interfering with the other, which as a consequence improves the quality of the pictures, notably the brightness.

***Remark on the ⊕ key of the television**

Each time the ⊕ (television/video) key is pressed, the input mode changes as follows:

TV - VIDEO 1 ⊕1 - RGB ⊕ - VIDEO 2 ⊕2 - S VIDEO ⊕

Remark:

When the RGB input mode is chosen (⊕), the sharpness of the picture cannot be adjusted.

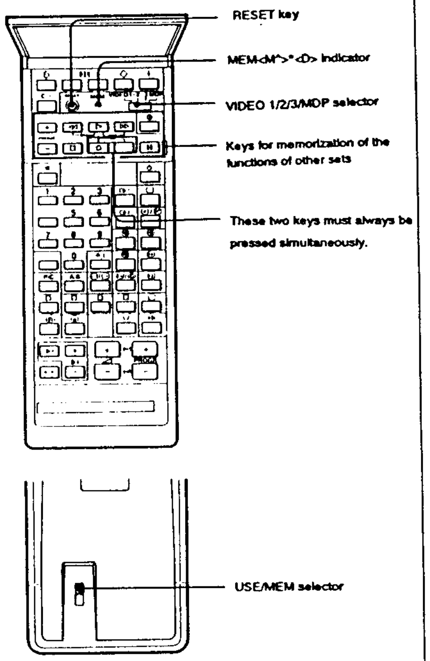
Remarks on the connections

- If the picture is deformed or has interference separate the set connected to the television.
- When a video set is joined to two input connectors (⊕—1 and ⊕→2), disconnect the one which is not being used.
- Plug the computer only into the VIDEO 1 (⊕—) connector.

1-8. OPERATION OF ANOTHER SET USING THE SUPPLIED REMOTE CONTROL

You can operate your video set by means of the remote control that has been supplied, thanks to the learning function with which it is equipped.

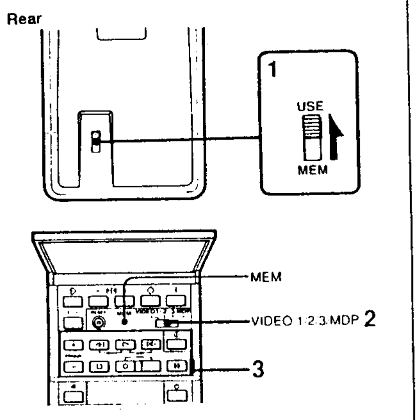
Controls used for learning


RESET key
MEM<M^>*<D> Indicator
VIDEO 1/2/3/MDP selector
Keys for memorization of the functions of other sets
These two keys must always be pressed simultaneously.
USE/MEM selector

* MEM indicator operates as response indicator when USE/MEM selector is set to USE.
It lights up momentarily when the operation key other than RESET and REC is pressed.

Operation of a Sony video set

To operate a video set manufactured by Sony, it is pointless to call upon the learning function.
You can operate cassette type magnetoscopes (including Beta, 8mm and VHS) function), as well as vodeodisc readers.



1 **Set USE/MEM to USE.**
Normally leave this selector in the USE position to operate the television.

2 **Set the VIDEO 1/2/3/MDP in relation to the connected video set.**

Set	Position of the selector VIDEO 1 2 3 MDP
Beta magnetoscope, ED Beta	VIDEO 1
8mm VTR	VIDEO 2
VHS magnetoscope	VIDEO 3
Videodisc reader	MDP

3 **Use the keys of this area to operate the video set.**

Operation of a VCR

To record	Simultaneously press ● and the key located to its right.
To begin the reading	Press ▶.
To stop the scrolling	Press ■.
To rapidly advance the tape	Press ▶▶.
To rewind the tape	Press ◀◀.
To momentarily stop the tape	Press ❚❚.
To look at pictures scrolling at high speed and find a particular scene	**Hold ▶▶ or ◀◀ during the reading. To resume normal reading, release the key.**

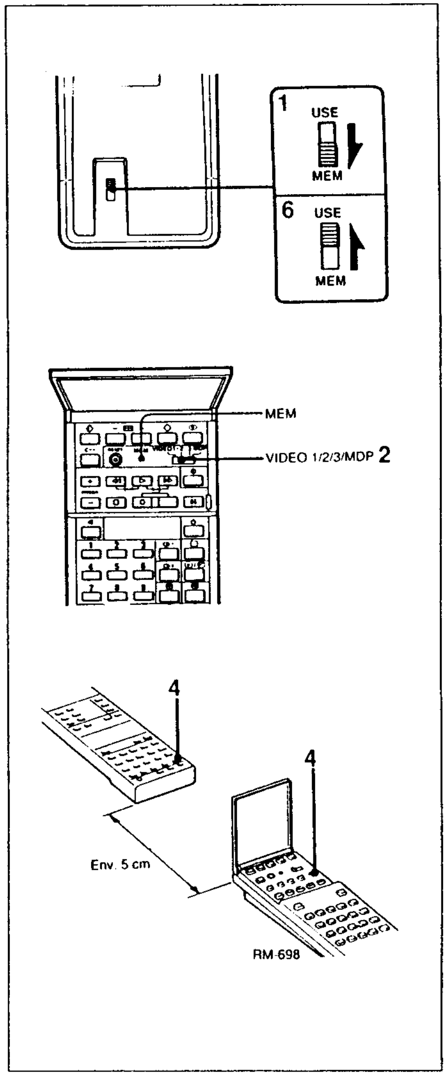
Operation of a videodisc reader

To start the reading	Press ▶.
To stop the disc	Press ■.
	Press ❚❚.
To watch pictures scroll at high speed and find a particular scene	**Hold ▶▶ pr ◀◀ in during the reading. To resume normal reading, release the key.**

Remark :
In certain cases, this remote control cannot actuate the functions of the connected video device.

Operation of a video device of another manufacturer

Practically any key of the learning area is capable of memorizing the remote control function with a Sony set, as well as a device of anotner manufacturer.
You can memorize a function on each function key, in learning mode.



1 **Adjust USE/MEM on MEM.**

2 **Set VIDEO 1/2/3/MDP in relation to the connected video device.**

3 **Place this remote control and the other face to face at a distance of 5 cm.**

To achieve a more precise learning
Do not move the remote control during the memorization process.

4 **Keep the key on which a function must be memorized pressed down (the MEM indication lights), as well as the function key of the other remote control, until the MEM indication disappears.**
If a non-programmable key is depressed, the MEM indication flashes eight times, then goes out.

5 **Repeat the steps 2 to 4 to continue to memorize functions.**

6 **Once the learning is finished, reset USE/MEM on USE.**
Be sure to reset the USE/MEM selector on USE position after memorization, if you do not, you will not be able to operate the device.

A few other tips

- Set the VIDEO 1/2/3/MDP selector on a position not used for the Sony video set.
- When you operate the device by learned functions, the VIDEO 1/2/3/MDP must be set in the same position as during the learning.
- To memorize a new function on the same function key.
  Example: Stop function → ■ key (stop)
  Reading function → ▶ key (read)
- It is also possible to memorize the functions of an audio device.

Attention:
When replacing the batteries, install them within about 30 minutes, If you do not do so, the memorized functions will be erased.

Remarks on the memorization function

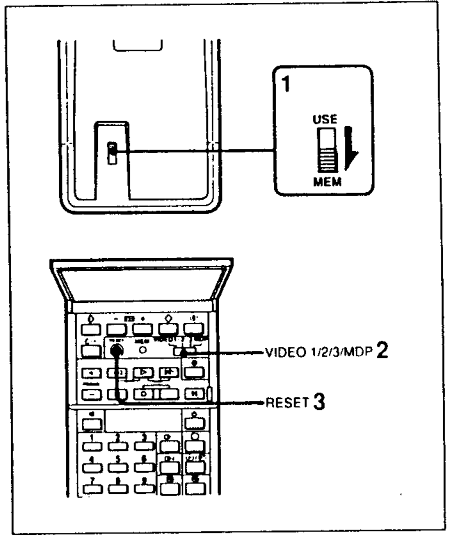
- Verify that the functions have been correctly and well memorized, because certain remote operating functions of other manufacturers are not memorizable on this remote control.
- When a new function is assigned to a key, the preceding function is automatically erased.
- When the memory is saturated, the MEM key flashes.

The learning function will not function in the following cases:

When	It is then necessary
• A fluorescent light or an apparatus emitting infrared rays is located in the proximity.	• To separate the remote control from the source of interference.
• The batteries are depleted.	• To replace the batteries with new ones.
• An obstacle is interposed between the remote control or it is not directly facing the target. • The remote control has been moved during the memorization process.	• To correctly position the both remote controls.

Erasing of the memorized functions

You can erase memorized functions of each learning mode, that is, VIDEO 1, 2, 3 or MDP.



1 Set USE/MEM on MEM.	—
2 Set VIDEO 1/2/3/MEM on the position to be erased.	—
3 Press RESET.	All the functions memorized in the learning mode are erased. The MEM indication lights for several moments, then goes out.

Remark:

When the memorized functions are erased, the function keys of the programming area retain their memory which was input at the factory, such that it becomes possible to normally operate a video set manufactured by Sony.

1-9. RECEIVABLE CHANNELS AND DISPLAY OF THE CHANNELS

FRENCH SECAM-L SYSTEM	
Receivable channels	**Display of the channels**
2	C02
3	C03
⋮	⋮
10	C10
21	C21
⋮	⋮
69	C69

B/G PAL SYSTEM	
Receivable channels	**Display of the channels**
E2	C02
3	C03
4	C04
⋮	⋮
12	C12
21	C21
⋮	⋮
69	C69

CABLE TV NETWORK (1)	
Receivable channels	**Display of the channels**
S1	01
2	02
⋮	⋮
41	41

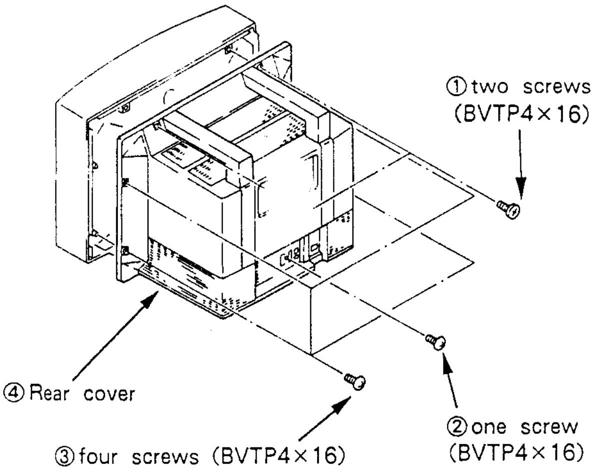
FRENCH CABLE NETWORK	
Receivable channels	**Display of the channels**
B	02
C	03
D	04
⋮	⋮
O	15
P	16
Q	17

ITALY	
Receivable channels	**Display of the channels**
A	C13
B	C14
C	C15
D	C16
E	C17
F	C18
G	C19
H	C20
H1	C11
H2	C12

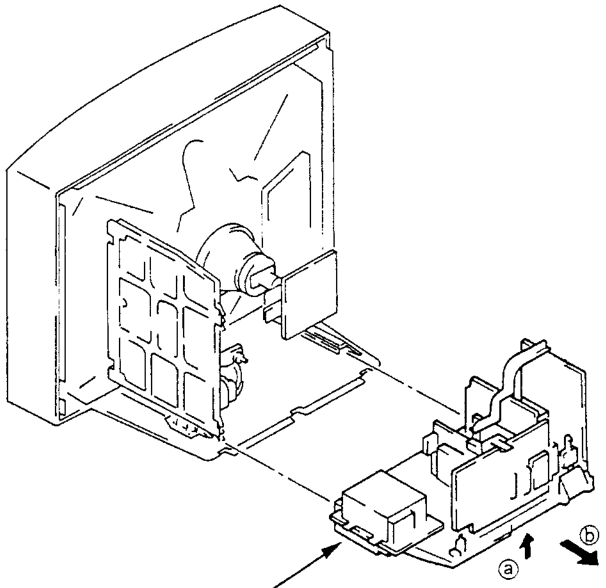
CABLE TV NETWORK (2)	
Receivable channels	**Display of the channels**
S01	42
⋮	⋮
S05	46
M1	01
⋮	⋮
M10	10
U1	11
⋮	⋮
U10	20

SECTION 2
DISASSEMBLY

2-1. REAR COVER REMOVAL

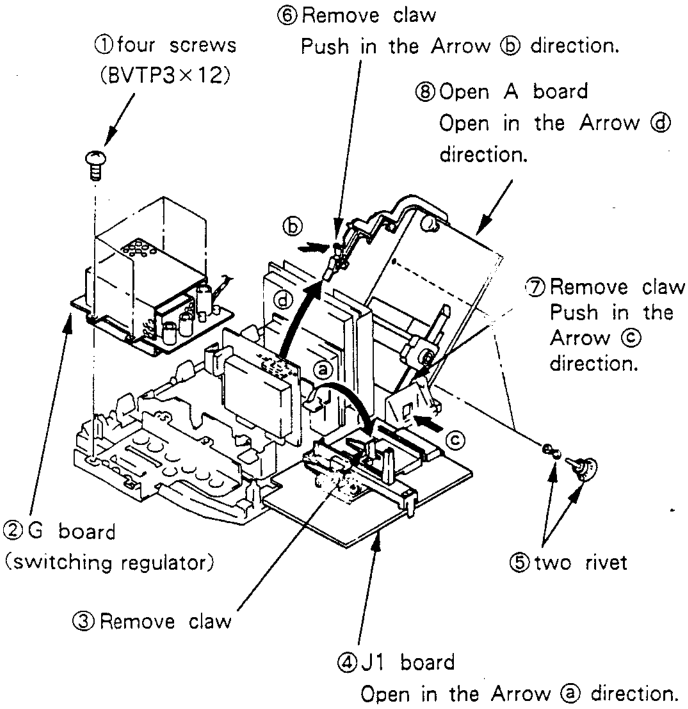

①two screws
(BVTP4×16)
④Rear cover
③four screws (BVTP4×16)
②one screw
(BVTP4×16)

2-2. CHASSIS ASSY REMOVAL



Lift and pull out the rear part of the main chassis toward the rear.

2-3. G BOARD (SWITCHING REGULATOR) REMOVAL AND J1, A BOARDS OPENING


⑥Remove claw
Push in the Arrow ⓑ direction.
①four screws
(BVTP3×12)
⑧Open A board
Open in the Arrow ⓓ
direction.
ⓑ
ⓓ
⑦Remove claw
Push in the
Arrow ⓒ
direction.
ⓐ
ⓒ
②G board
(switching regulator)
⑤two rivet
③Remove claw
④J1 board
Open in the Arrow ⓐ direction.

2-4. B1, Q AND V BOARDS REMOVAL

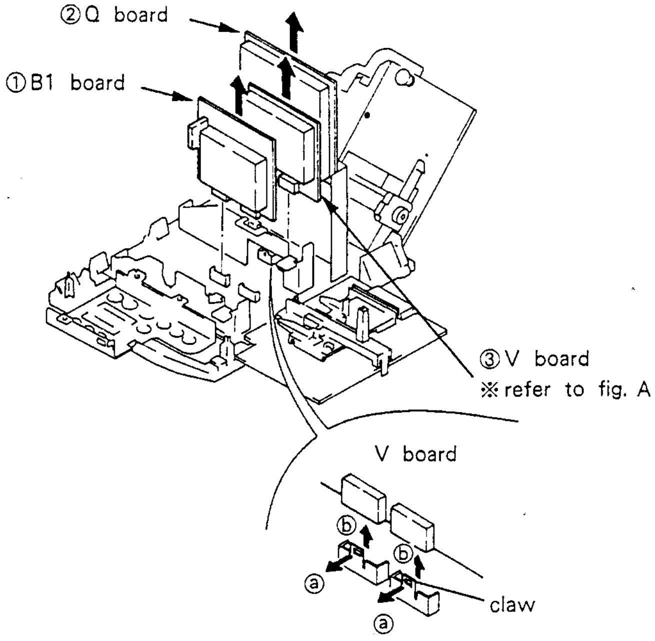
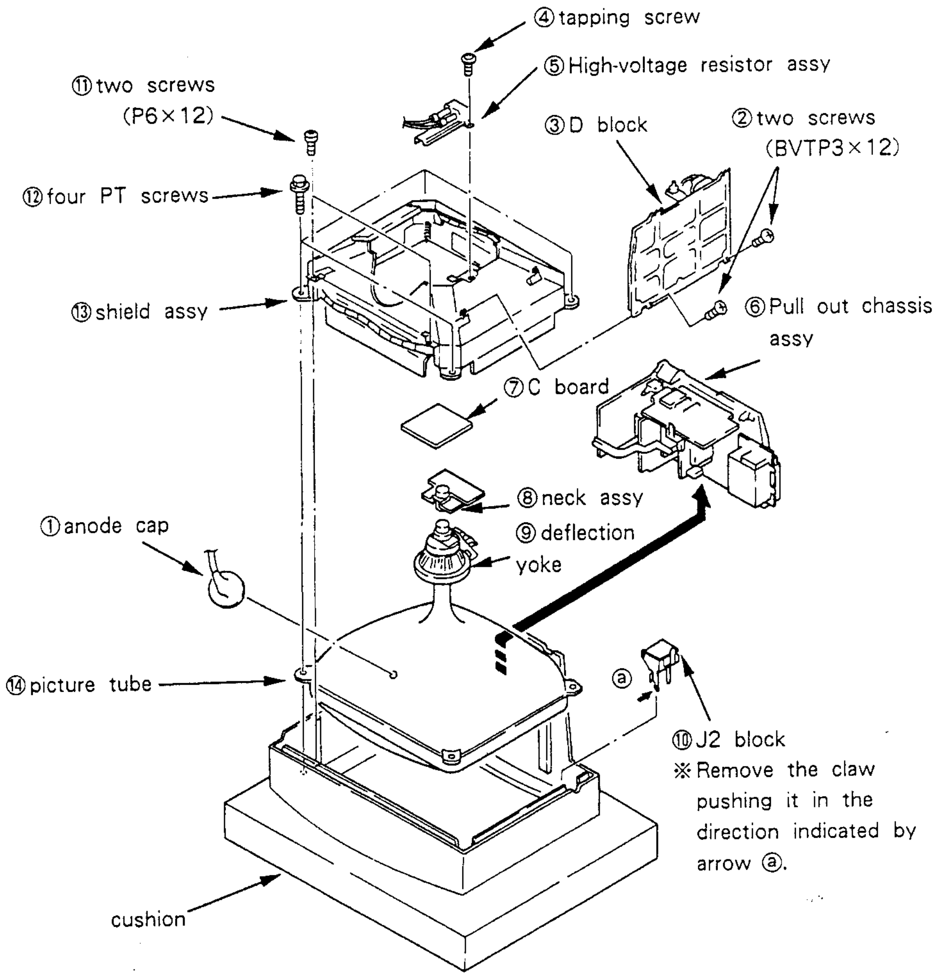

②Q board
①B1 board
③V board
※refer to fig. A
V board
ⓑ
ⓑ
ⓐ
claw
ⓐ

Fig. A

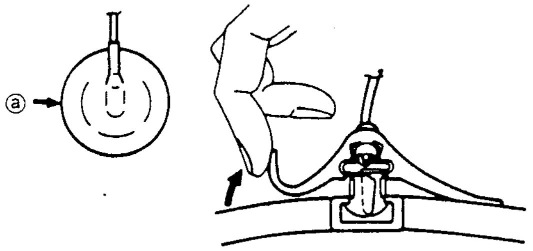
④Pull out V board after removig the two claws on the connector holding V board in place in the direction indicated by arrow ⓐ.

※The operation must be performed after removal of board B1.

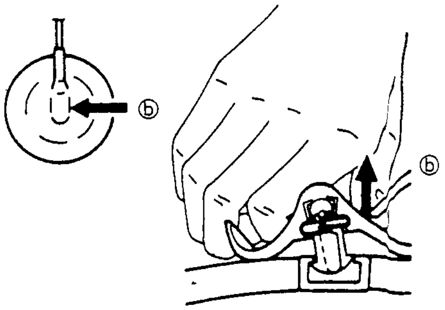
2-5. PICTURE TUBE REMOVAL


④tapping screw
⑤High-voltage resistor assy
⑪two screws (P6×12)
③D block
②two screws (BVTP3×12)
⑫four PT screws
⑬shield assy
⑥Pull out chassis assy
⑦C board
⑧neck assy
①anode cap
⑨deflection yoke
⑭picture tube
ⓐ
⑩J2 block
※Remove the claw pushing it in the direction indicated by arrow ⓐ.
cushion

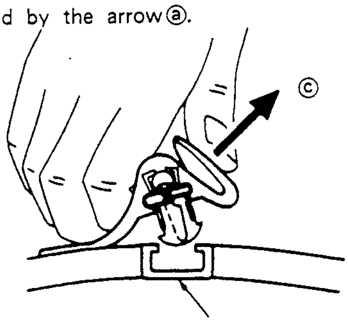
● Removing Procedures



① Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ.

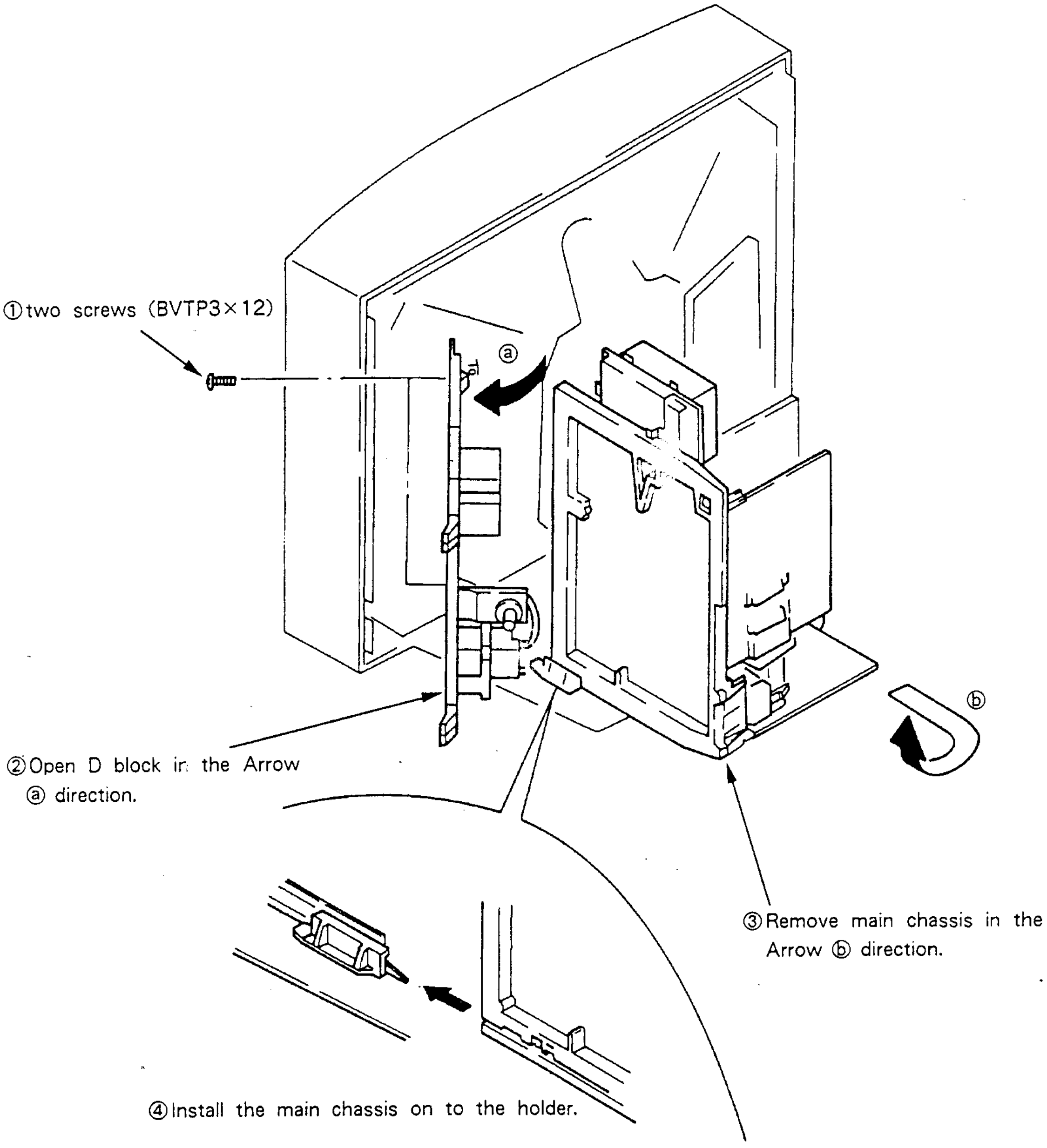


② Using a thumb, pull up the rubber cap firmly in the direction indicated by the arrow ⓑ.


ⓒ
Anode button

③ When one side of the rubber cap is separated from the anode button, the anode cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ⓒ.

2-6. SERVICE POSITION


①two screws (BVTP3×12)

②Open D block in the Arrow ⓐ direction.

③Remove main chassis in the Arrow ⓑ direction.

④Install the main chassis on to the holder.

SECTION 3

SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

The control and switch below should be set as follows unless otherwise noted :

◑ CONTRAST control ······· 80% (or Normal by Commander)
☼ BRIGHTNESS control ···· 50%

Perform the adjustments in order as follows :

1. Beam Landing
2. Convergence
3. Focus
4. White Balance

Note : Test Equipment Required.

1. Color Bar/Pattern Generator
2. Degausser
3. DC Power Supply
4. Digital multimeter
5. Oscilloscope

Preparation

- Set the side of the unit with the PICTURE TUBE so that it faces east or west in order to reduce the influence of external magnetic force.
- Turn the power switch for the unit ON and erase the magnetic force using a degausser.

3-1. BEAM LANDING

1. Input a raster signal with the pattern generator.
   CONTRAST } normal
   BRIGHTNESS }
2. Turn the raster signal of the pattern generator to red.
3. Move the deflection yoke backward, and adjust with the purity control so that red is in the center and blue and green are at the sides, evenly. (Fig. 3 - 1 — 3 - 3)
4. Move the deflection yoke forward, and adjust so that the entire screen becomes red.(Fig. 3-1)
5. Switch over the raster signal to blue and green and confirm the condition.
6. When the position of the deflection yoke is determined, tighten it with a deflection yoke mounting screw.
7. When landing at the corners is not right, adjust by using the magnet.(Fig. 3 - 4)

Fig.3-1

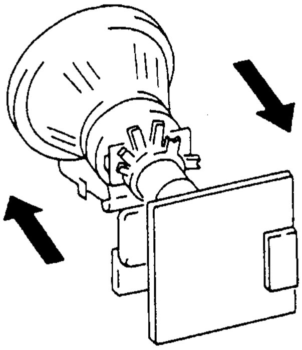


Fig. 3-2

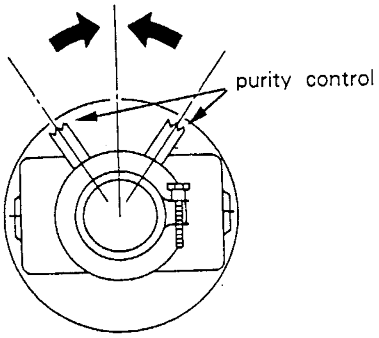

purity control

Fig.3-3

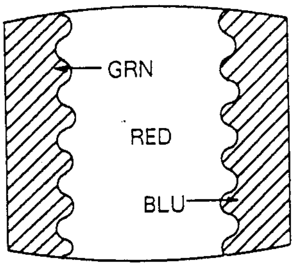
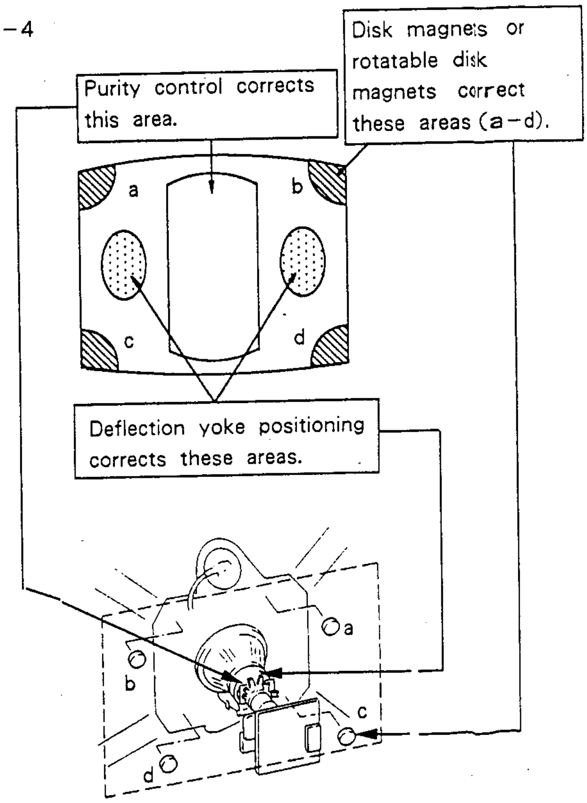


Fig.3-4

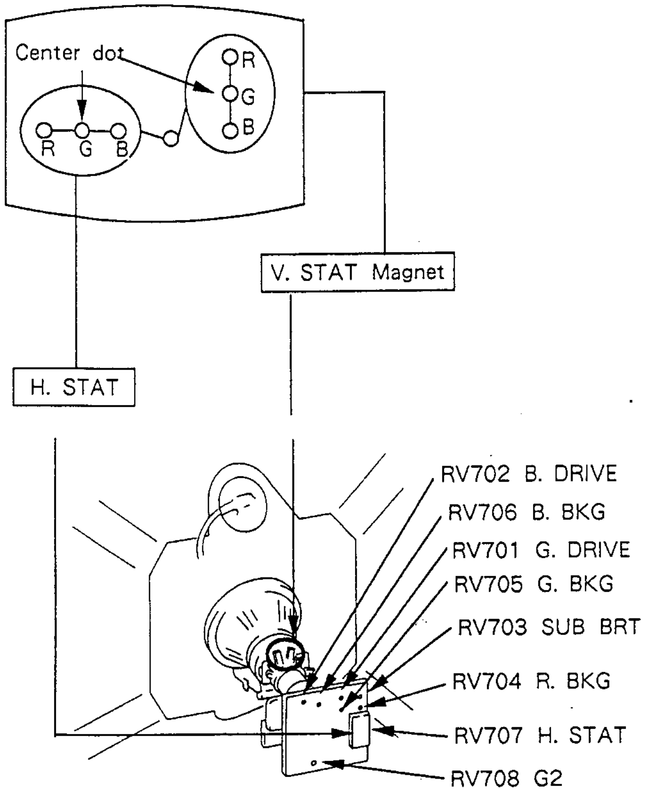

Disk magnets or rotatable disk magnets correct these areas (a-d).
Purity control corrects this area.
a
b
c
d
Deflection yoke positioning corrects these areas.
a
b
c
d

3−2. CONVERGENCE

Preparation :

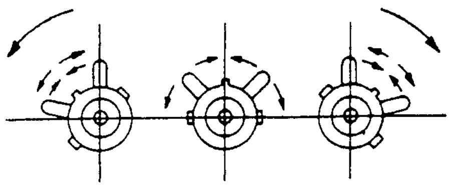
- Before starting, perform FOCUS, H. SIZE and V. SIZE adjustments.
- Set BRIGHTNESS control to minimum.
- Feed in the dot pattern.

(1) Horizontal and Vertical Static Convergence

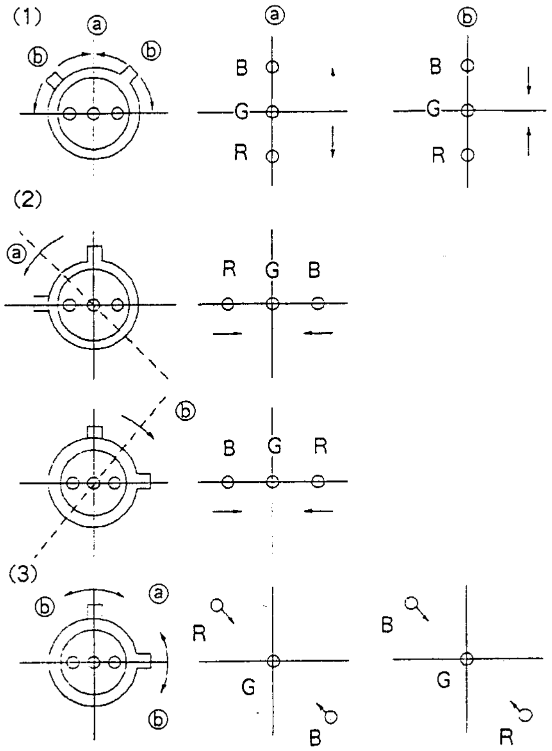

Center dot
R
G
B
R G B
V. STAT Magnet
H. STAT
RV702 B. DRIVE
RV706 B. BKG
RV701 G. DRIVE
RV705 G. BKG
RV703 SUB BRT
RV704 R. BKG
RV707 H. STAT
RV708 G2

1. Adjust H. STAT VR to coincide red, green and blue dots on the center of screen.(Horizontal movement)
2. Adjust V. STAT magnet to coincide red, green and blue dots on the center of screen.(Vertical movement)
3. If the red, green and blue dots do not coincide on the center of screen with H. STAT VR, perform horizontal convergence adjustment using H. STAT VR and V. STAT magnet as shown below. (In this case, H. STAT VR and V. STAT magnet effect each other.)

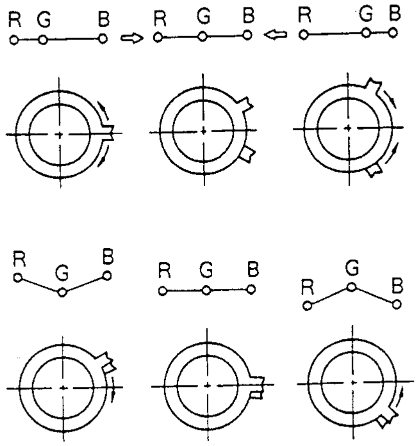
- Tilt the V. STAT magnet and adjust static convergence to open or close the V. STAT magnet.

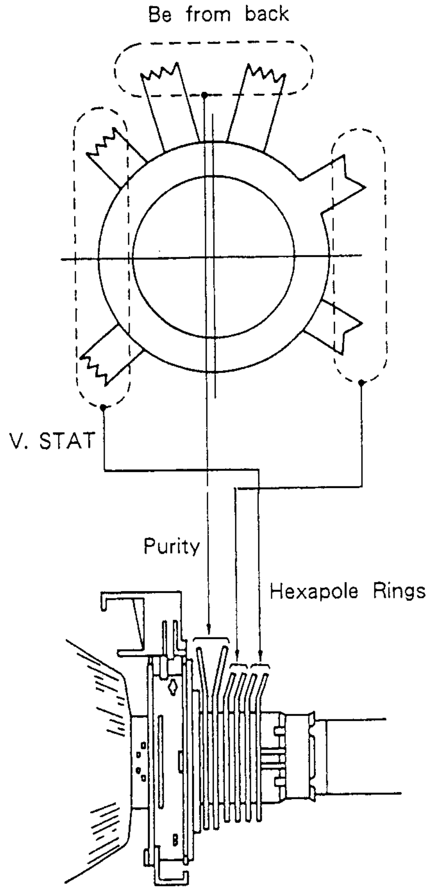


4. When the V. STAT magnet is moved in the direction of arrow ⓐ and ⓑ, red, green and blue dots move as shown below.


(1)
ⓐ
ⓑ
ⓑ
ⓐ
B
G
R
ⓑ
B
G
R
(2)
ⓐ
R G B
ⓑ
B G R
(3)
ⓑ
ⓐ
ⓑ
R
G
B
B
G
R

- Operation of Hexapole Ringed Magnet


R G B
R G B
R G B
R G B
R G B
R G B


Be from back
V. STAT
Purity
Hexapole Rings

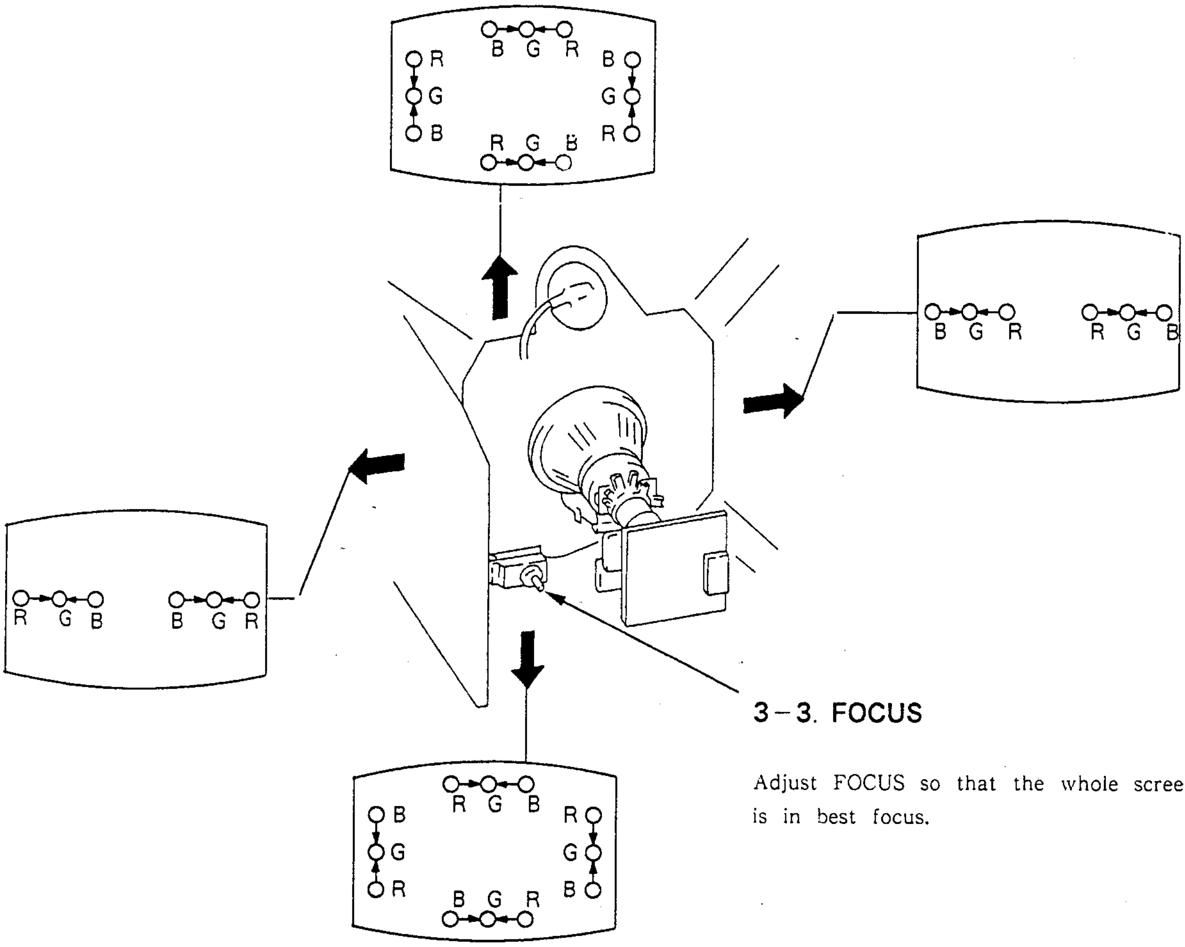
The respective dot operations resulting from the operation of each magnet are not completely independent, so be sure to perform adjustment while tracking.
Use the H. STAT VR to adjust the red, green, and blue dots so they coincide at the center of screen (by moving the dots in the horizontal direction).

(2) Dynamic Convergence Adjustment

Preparation :

- Before starting, perform Horizontal and Vertical Static Convergence Adjustment..

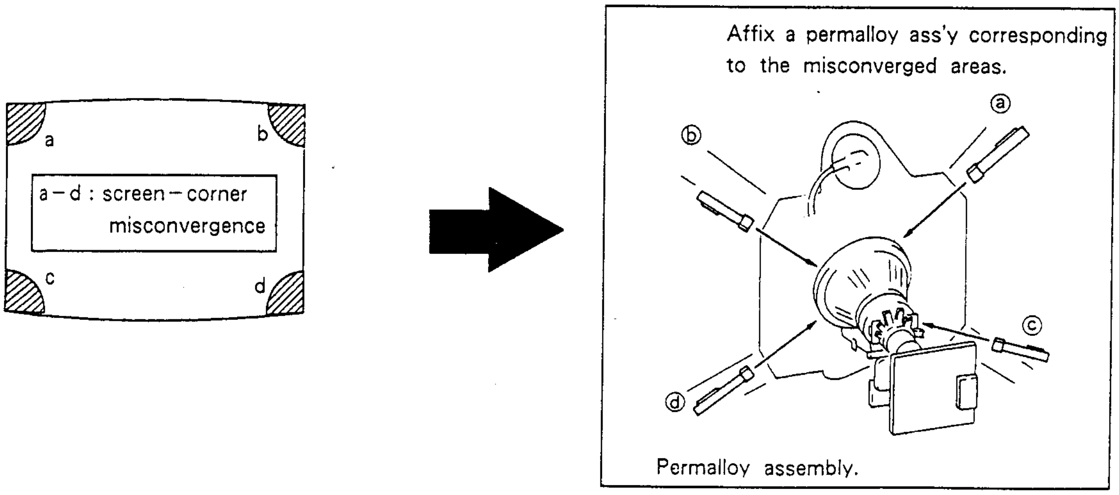
1. Slightly loosen deflection yoke screw.
2. Remove deflection yoke spacers.
3. Move the deflection yoke for best convergence as shown below.
4. Tighten the deflection yoke screw.
5. Install the deflection yoke spacers.


B G R
R B
G G
B R
R G B
B G R
R G B
R G B
B G R
R G B
B R
G G
R B
B G R

3-3. FOCUS

Adjust FOCUS so that the whole screen is in best focus.

(3) Screen - corner Convergence


a
b
a–d : screen–corner misconvergence
c
d
ⓐ
ⓑ
ⓒ
ⓓ

Affix a permalloy ass'y corresponding to the misconverged areas.

Permalloy assembly.

3-4. WHITE BALANCE

[Screen (G2) Setting]

1. Input dot signals.
2. Set the picture BRIGHTNESS control to the minimum level.
3. Apply 170 V dc to the cathodes of R, G, and B from an external power source.
4. While watching the picture, adjust the G2 volume (RV708) immediately before the fly-back line disappears.

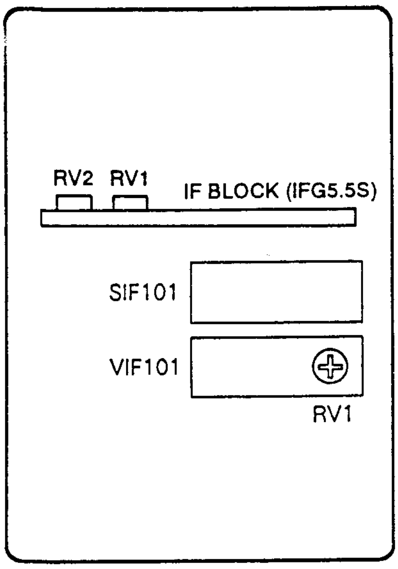
[White Balance Adjustment]

1. Input all-white signals.
2. Adjust the BRIGHTNESS and COLOR controls to the standard level.
3. Adjust the highlight W/B balance by turning the RV702 (B. DRIVE) and RV701 (G DRIVE). Also, adjust the cut—off W/B by turning RV706 (B-BKG), RV705 (G-BKG) and RV704 (R-BKG). Note that these two balances must be adjusted during tracking.

In the following adjustments, the CONTRAST, COLOR and BRIGHTNESS controls are set to normal unless otherwise specified.

SECTION 4
CIRCUIT ADJUSTMENTS

4–1. A BOARD ADJUSTMENTS


RV2
RV1
IF BLOCK (IFG5.5S)
SIF101
VIF101
RV1

TUNER AGC Adjustment VIF101 (IFG389FS) RV1

1. Tune in an off-air signal.
2. Adjust RV1 so that snow-noise and cross-modulation just disappear from the picture.

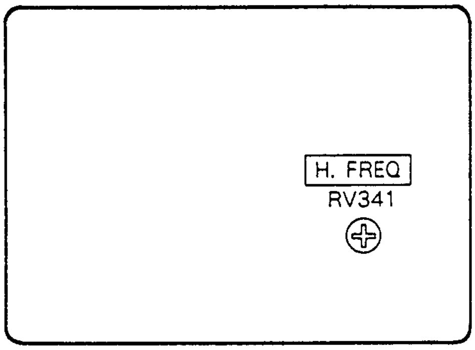
STEREO SEPARATION Adjustment IF BLOCK(IFG5.5S) RV1

1. Input stereo signal (L–CH 1kHz, R–CH 400Hz)
2. Check the stereo indicator.
3. Connect an oscilloscope to the pin ① (L) of CNA11 through band pass filter of 1kHz.
4. Adjust RV1 so that 1kHz voltage goes down to the minimum.

H. FREQ. Adjustment IF BLOCK (IFG5.5S)RV2

1. Input PAL COLOR pattern.
2. Short circuit between pin ⑫ of IC4 (TDA2595) and ground.
3. Connect a frequency counter to the pin ⑥ through a probe of 10 : 1.
4. Adjust RV2 so that H. frequency becomes 15.625±50Hz.

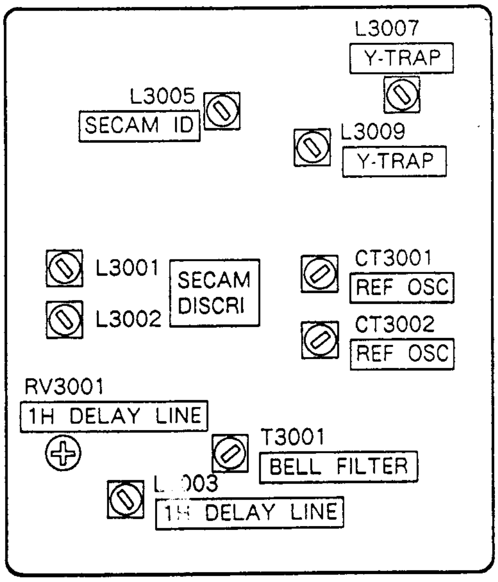
4–2. B BOARD ADJUSTMENTS


H. FREQ
RV341

H. FREQ Adjustment (RV341)

1. Input a PAL COLOR BAR pattern.
2. Connect pin ⑫ of IC341 to the ground.
3. Connect the frequency counter to pin ⑥ using the 10 : 1 ratio probe.
4. Adjust RV341 so that frequency H becomes 15.625kHz±50Hz.

4–3. B1 BOARD ADJUSTMENTS


L3007
Y-TRAP
L3005
SECAM ID
L3009
Y-TRAP
L3001
L3002
SECAM DISCRI
CT3001
REF OSC
CT3002
REF OSC
RV3001
1H DELAY LINE
T3001
BELL FILTER
L3003
1H DELAY LINE

REF OSC Adjustment (CT3001, 4.43 MHz)

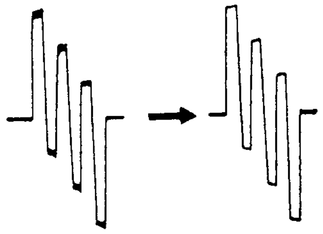
1. Input a PAL COLOR BAR pattern.
2. Short circuit between pin ⑰ of IC3001 and ground.
3. Adjust CT3001 to obtain color synchronization.
4. Remove the jumper wire from IC3001.

REF OSC Adjustment (CT3002, 3.58 MHz)

1. Input NTSC3.58 COLOR BAR signal.
2. Short-circuit pin ⑰of IC3001 and the ground.
3. Adjust CT3002 to obtain color synchronization.
4. Remove the jumper of IC3001.

1H DELAY LINE Adjustment (L3003, RV3001)

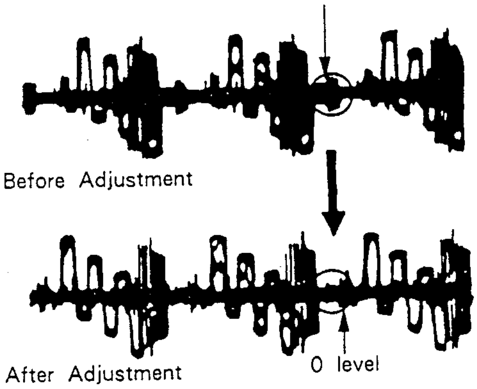
1. Input a PAL COLOR BAR pattern.
2. Connect the oscilloscope to pin ③ (B-Y) of IC3001 and observe the waveform of the H block on the oscilloscope.
3. Adjust L3003 to minimize the double waveform outline.



Before Adjustment After Adjustment

4. Input a PAL TEST COLOR BAR pattern.
5. Rotate the RV3001 and adjust till the ANT PAL part of the waveform matches the 0 level.

This part matches the 0 level.



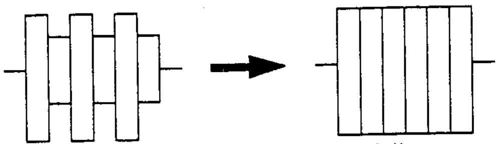
6. L3003 and RV3001 affect each other, so repeat till the conditions of both are met.

SECAM ID Adjustment (L3005)

1. Input SECAM COLOR BAR signal.
2. Connect a Digital Multi - meter at pin ㉑ of IC3001.
3. Adjust L3005 so that the indicator goes up to the maximum.

BELL FILTER Adjustment (T3001)

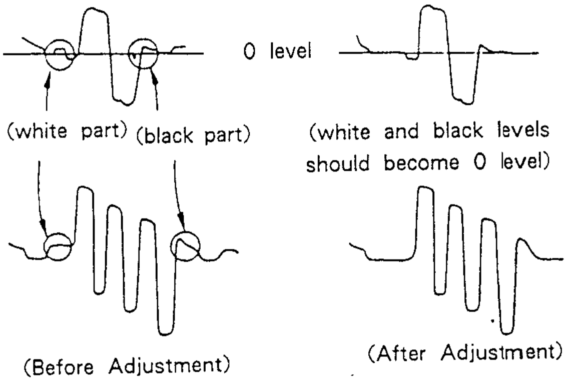
1. Input SECAM COLOR BAR pattern.
2. Connect an oscilloscope to the Q3002 emitter.
3. Adjust T3001 so that the waveform becomes flat.



Before Adjustment After Adjustment

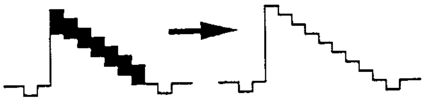
SECAM DISCRI Adjustment [L3002 (R−Y), L3001 (B−Y)]

1. Input SECAM COLOR BAR pattern.
2. Connect an oscilloscope at pin ① of IC3001.
3. Adjust L3002 (R−Y) so that white and black part of the waveform of pin ① becomes 0 level.
4. Connect an oscilloscope at pin ③ of IC3001.
5. Adjust L3001 (B−Y) so that white and black part of the waveform of pin ③ becomes 0 level.

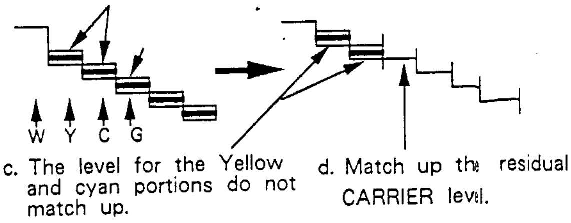

0 level
(white part)
(black part)
(white and black levels should become 0 level)
(Before Adjustment)
(After Adjustment)

Y TRAP (L3007 4.25 MHz, L3009 4.43 MHz)

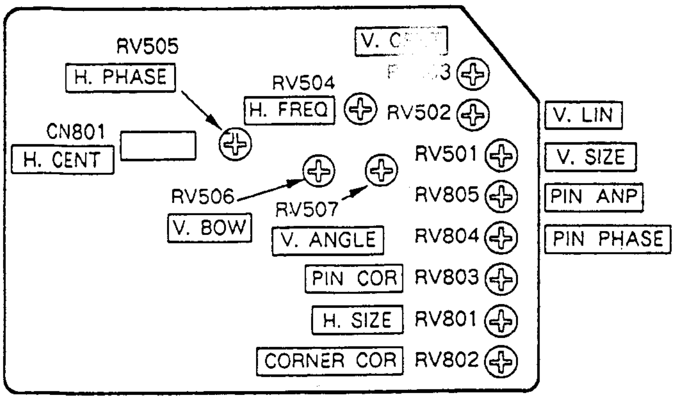
1. Input PAL COLOR BAR pattern.
2. Connect the oscilloscope to the Y−OUT terminal of CNB32 pin③ to display the waveform for the H portion.
3. Adjust L3009 to minimize the CARRIER level.
4. Convert the input signal into NTSC COLOR BAR pattern.
5. Cancel the forced PAL MODE and set the forced NTSC MODE.
6. Adjust L3007 while observing if the signal portions for the CARRIER level for DR (3.58 MHz).



a. Before adjustment b. After adjustment


the rest of 3.58MHz CARRIER
W
Y
C
G
c. The level for the Yellow and cyan portions do not match up.
d. Match up the residual CARRIER level.

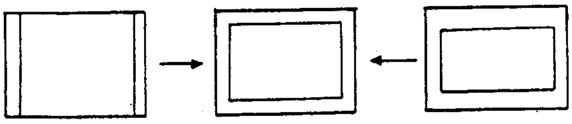
4–4. D BOARD ADJUSTMENTS


RV505
H. PHASE
RV504
H. FREQ
RV502
CN801
H. CENT
RV501
RV506
RV507
RV805
V. BOW
V. ANGLE
RV804
PIN COR
RV803
H. SIZE
RV801
CORNER COR
RV802
V. LIN
V. SIZE
PIN ANP
PIN PHASE

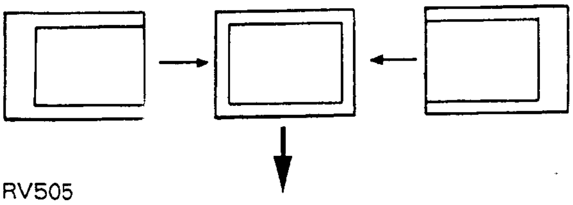
H. FREQ Adjustment (RV504)

1. Input PAL COLOR BAR.
2. Connect 100/16 chemical condenser between pin ① of IC501 and the GND.
3. Connect the frequency counter probe to C824.
4. Adjust RV504 so that 31.25kHz±50Hz is obtained for 2H the frequency.

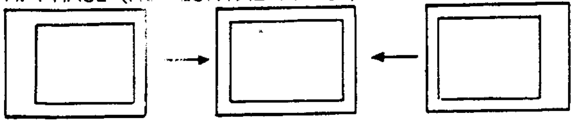
RV501
V. SIZE (VERTICAL SIZE)



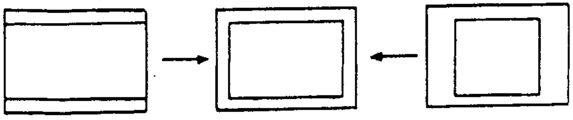
CN801
H. CENT (HORIZONTAL CENTER)



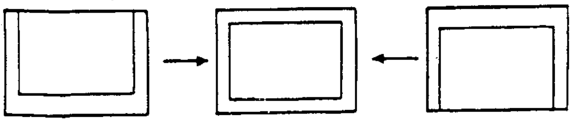
RV505
H. PHASE (HORIZONTAL PHASE)



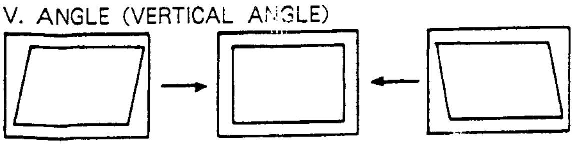
RV801
H. SIZE (HORIZONTAL SIZE)



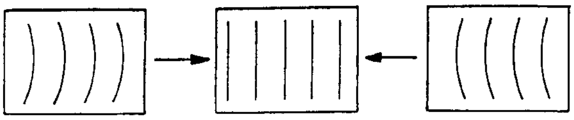
RV503
V. CENT (VERTICAL CENTER)



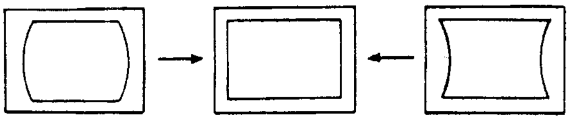
RV507
V. ANGLE (VERTICAL ANGLE)



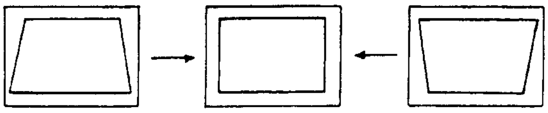
RV506
V. BOW (VERTICAL BOW)



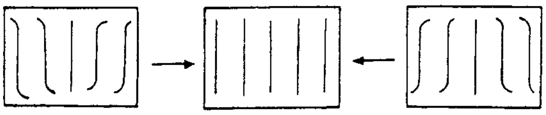
RV805
PIN AMP (PINCUSHION AMPLIFIER)



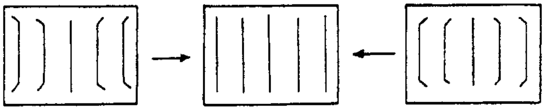
RV804
PIN PHASE (PINCUSHION PHASE)



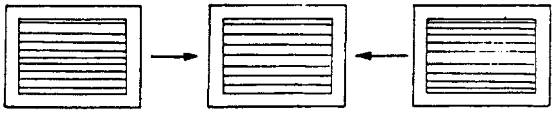
RV803
PIN COR (PINCUSHION CORRECT)



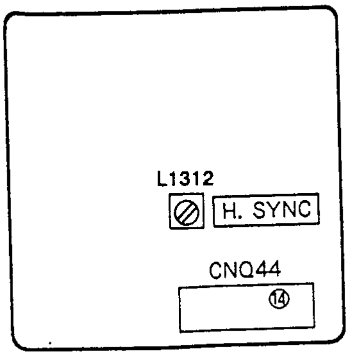
RV802
CORNER. COR (CORNER CORRECT)



RV502
V. LIN (VERTICAL LINEARITY)

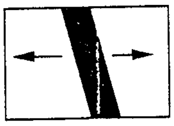


4-5. Q BOARD ADJUSTMENT



H. FREQ Adjustment

1. Input PAL COLOR BAR pattern.
2. Connect pin ⑭ of CNQ44 (H SYNC) to the GND.
3. Turn the core of L1312 to adjust the position where the screen flows slowly.



4-6. V BOARD ADJUSTMENTS

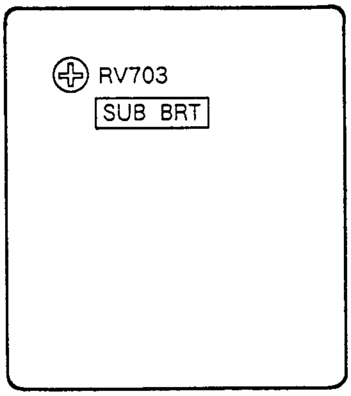
Clock Adjustment (CT01)

1. Disconnect the pins ② and ③ of CNV41.
2. Set up the TELE TEXT mode.
3. Adjust CT01 to stop pictures from scrolling.

RGB Level Adjustment (RV01)

1. Set PICTURE to maximum.
2. Adjust RV01 till the RGB output becomes maximum.

4-7. SUB BRT ADJUSTMENTS (C BOARD)



SUB BRIGHTNESS Adjustment

1. Receive and display a TEST COLOR BAR pattern.
2. Push → • ← on the remote commander to invoke the normal state. Set ◕ COLOR control and PICTURE control to minimum.
3. Reduce the ◑ CONTRAST to the minimum level.
4. Adjust the SUB BRIGHTNESS RV703 until the 0 IRE of the gray scale becomes completely cut off, and the 20 IRE becomes barely luminous.

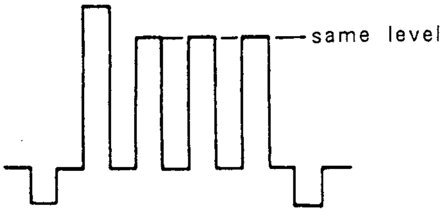
Where no TEST COLOR BAR pattern is available.

1. Display a COLOR BAR pattern.
2. Push → • ← on the remote commander to invoke the normal state. Set ◕ COLOR control and PICTURE control to minimum.
3. 20 IRE is close to blue, so adjust the SUB BRIGHTNESS RV703 till blue is faintly luminous.

SUB COLOR Adjustment

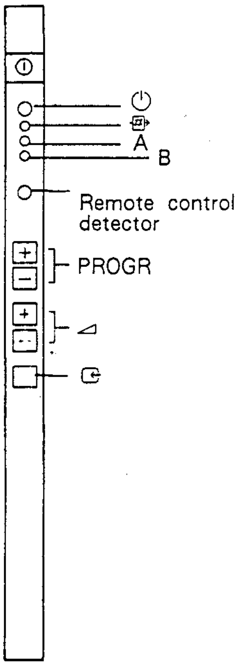
1. Display a COLOR BAR pattern.
2. Push → • ← on the remote commander to invoke the normal state.
3. Turn off the power supply.
4. Turn on the power supply while pushing the VOL + and VOL − buttons on the unit.

5. Adjust the COLOR control until the B out (pin ④ of CNC33 connector on C board) waveform becomes as shown below.



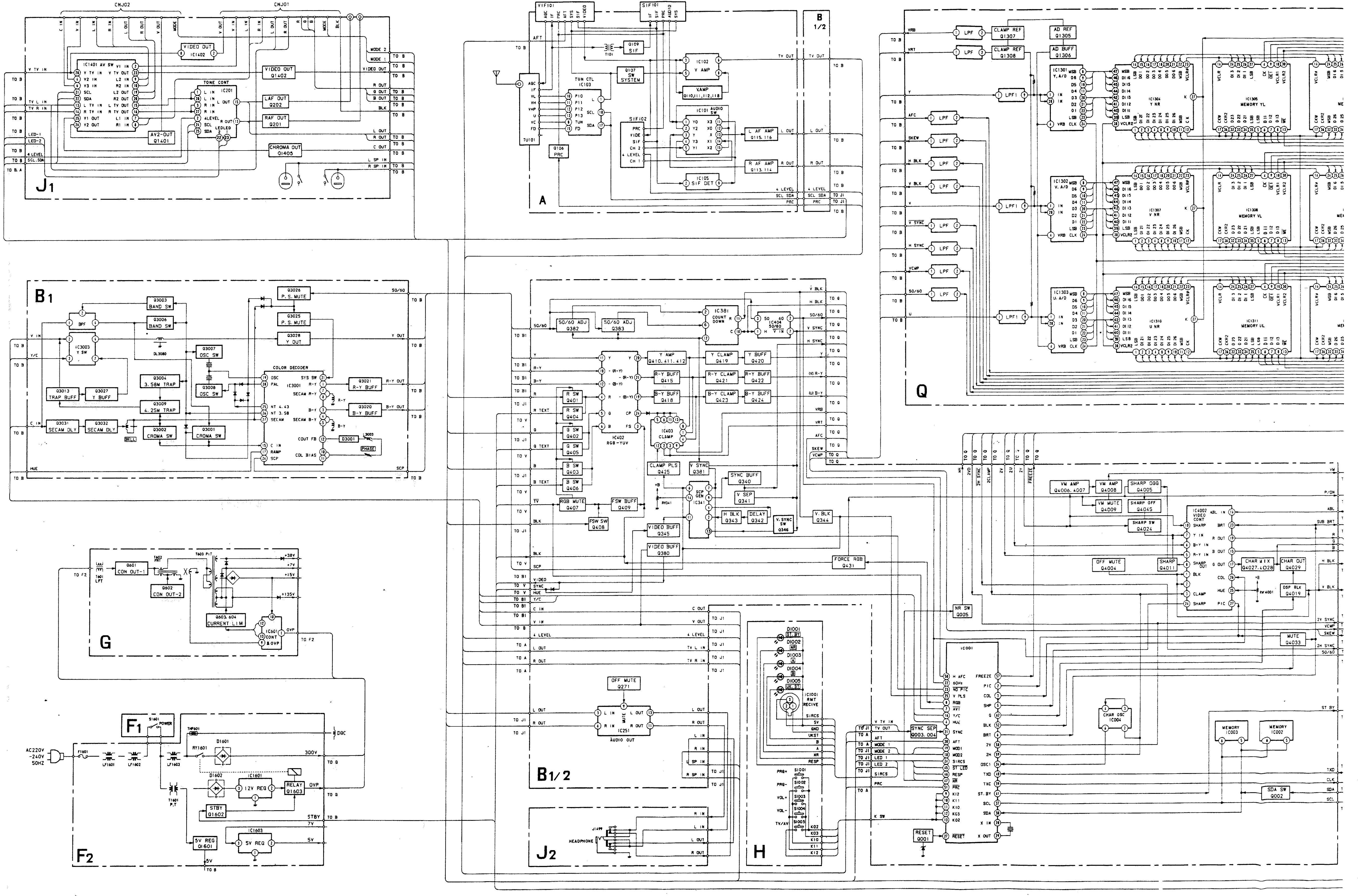
6. Push the STORE button on the remote commander. (SUB mode is cleared.)

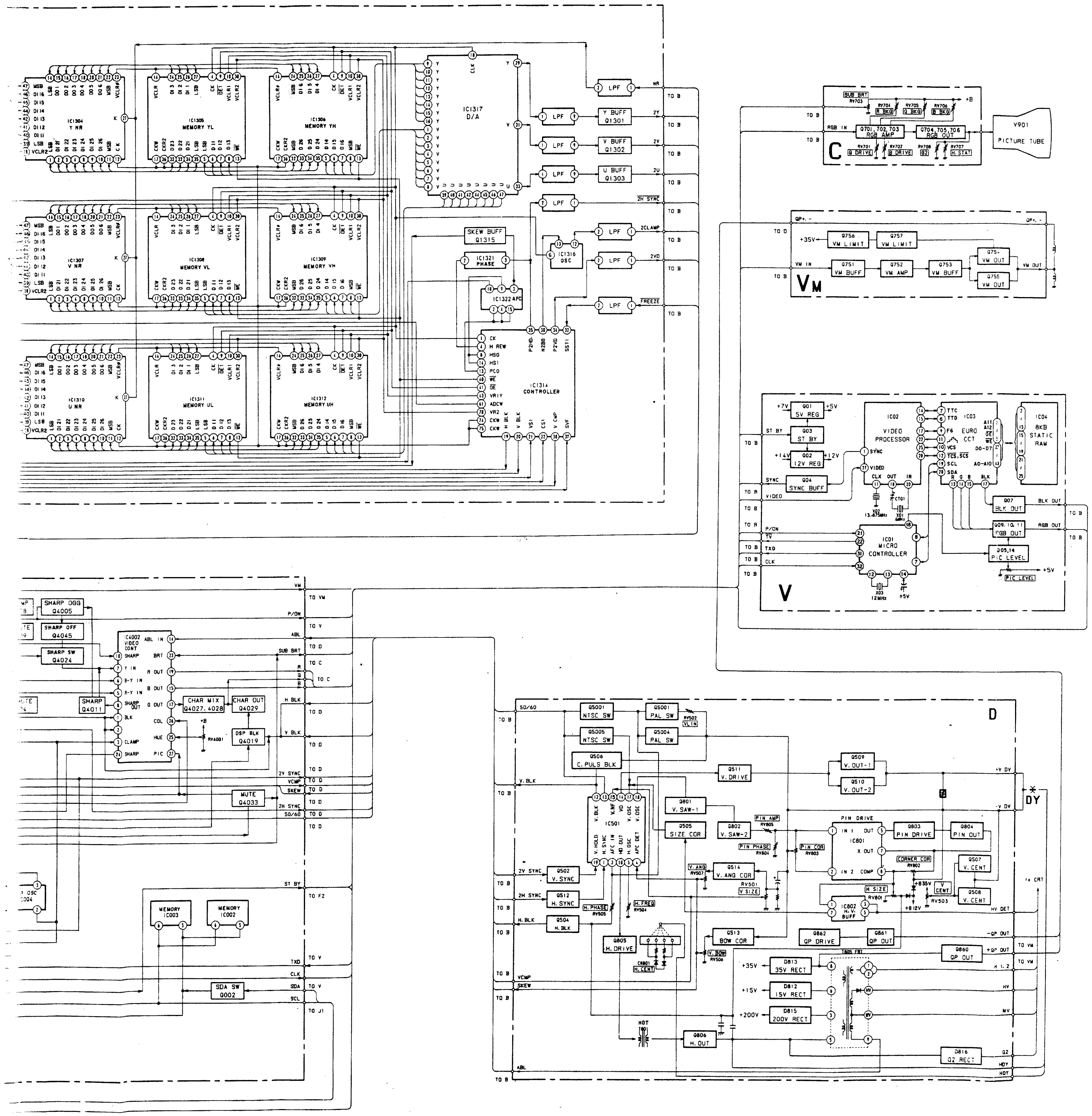
* When Step 4 is executed correctly, SUB (SUB mode) is displayed at the upper right of the display. As S (SUB mode) is displayed only for 30 seconds, perform the adjustment within 30 seconds, or repeat from Step 4.


A
B
Remote control detector
PROGR

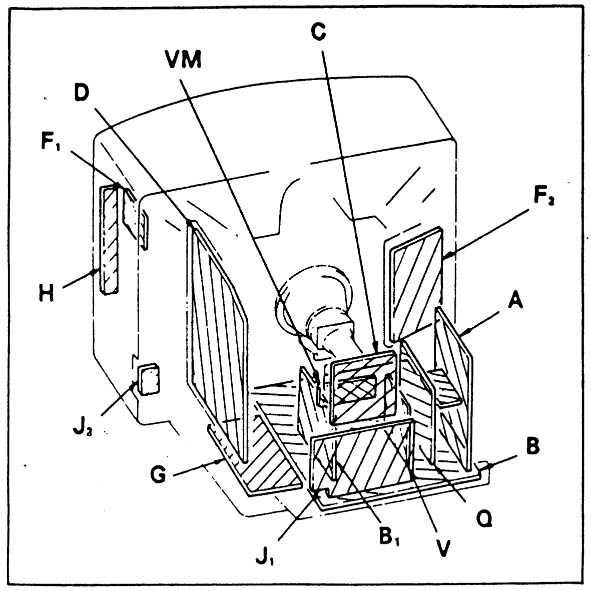
SECTION 5
DIAGRAMS

5-1. BLOCK DIAGRAM


J1
CNJ02
CNJ01
IC1401 AV SW
VIDEO OUT IC1402
VIDEO OUT Q1402
TONE CONT IC201
LAF OUT Q202
RAF OUT Q201
AV2-OUT Q1401
CHROMA OUT Q1405
B1
Q3003 BAND SW
Q3006 BAND SW
Q3026 P. S. MUTE
Q3025 P. S. MUTE
Q3028 Y OUT
BPF
IC3003 Y SW
Q3007 OSC SW
Q3008 OSC SW
Q3004 3.58M TRAP
Q3009 4.25M TRAP
Q3013 TRAP BUFF
Q3027 Y BUFF
Q3031 SECAM DLY
Q3032 SECAM DLY
Q3002 CROMA SW
Q3001 CROMA SW
COLOR DECODER IC3001
Q3021 R-Y BUFF
Q3020 B-Y BUFF
D3001
G
Q601 CON OUT-1
Q602 CON OUT-2
T602 PRT
T603 PIT
Q603, 604 CURRENT LIM
IC601 CONT & OVP
F1
S1601 POWER
F2
AC220V -240V 50HZ
D1601
D1602
IC1601 12V REG
RELAY Q1603
STBY Q1602
5V REG Q1601
IC1603 5V REG
A
VIF101
SIF101
Q109 SIF
Q107 SW SYSTEM
TUN CTL IC103
IC102 V AMP
VAMP Q110,111,112,118
IC101 AUDIO SW
L AF AMP Q115, 116
R AF AMP Q113, 114
IC105 SIF DET
SIF102
Q106 PRC
TU101
B 1/2
IC381 COUNT DOWN
50/60 ADJ Q382
50/60 ADJ Q383
IC404 50 60 H V IN
Y AMP Q410, 411, 412
Y CLAMP Q419
Y BUFF Q420
R-Y BUFF Q415
R-Y CLAMP Q421
R-Y BUFF Q422
B-Y BUFF Q418
B-Y CLAMP Q423
B-Y BUFF Q424
IC402 RGB-YUV
IC403 CLAMP
R SW Q401
R SW Q404
G SW Q402
G SW Q405
B SW Q403
B SW Q406
CLAMP PLS Q425
V SYNC Q381
SYNC BUFF Q340
V SEP Q341
IC341
H BLK Q343
DELAY Q342
V. SYNC SW Q346
V. BLK Q344
RGB MUTE Q407
FSW BUFF Q409
FSW SW Q408
VIDEO BUFF Q345
VIDEO BUFF Q380
FORCE RGB Q431
OFF MUTE Q271
IC251 AUDIO OUT
B1/2
J2
J1499
HEADPHONE
H
D1001 ST BY
D1002
D1003
D1004
D1005
IC1001 RMT RECIVE
S1001
S1002
S1003
S1004
S1005
Q
LPF
CLAMP REF Q1307
CLAMP REF Q1308
AD REF Q1305
AD BUFF Q1306
LPF1
IC1301 Y, A/D
IC1304 Y NR
IC1305 MEMORY YL
IC1302 V, A/D
IC1307 V NR
IC1308 MEMORY VL
IC1303 U, A/D
IC1310 U NR
IC1311 MEMORY UL
VM AMP Q4006, 4007
VM AMP Q4008
SHARP OGG Q4005
VM MUTE Q4009
SHARP OFF Q4045
SHARP SW Q4024
IC4002 VIDEO CONT
OFF MUTE Q4004
SHARP Q4011
CHAR MIX Q4027, 4028
CHAR OUT Q4029
OSP BLK Q4019
MUTE Q4033
NR SW Q005
IC001
SYNC SEP Q003, 004
RESET Q001
CHAR OSC IC004
MEMORY IC003
MEMORY IC002
SDA SW Q002


IC1304 Y NR
IC1305 MEMORY YL
IC1306 MEMORY YH
IC1317 D/A
IC1307 V NR
IC1308 MEMORY VL
IC1309 MEMORY VH
IC1310 U NR
IC1311 MEMORY UL
IC1312 MEMORY UH
Y BUFF Q1301
V BUFF Q1302
U BUFF Q1303
LPF
SKEW BUFF Q1315
IC1321 PHASE
IC1316 OSC
IC1322 AFC
IC1314 CONTROLLER
Q701,702,703 RGB AMP
Q704,705,706 RGB OUT
V901 PICTURE TUBE
C
Q756 VM LIMIT
Q757 VM LIMIT
Q751 VM BUFF
Q752 VM AMP
Q753 VM BUFF
Q754 VM OUT
Q755 VM OUT
VM
Q01 5V REG
Q03 ST BY
Q02 12V REG
Q04 SYNC BUFF
IC02 VIDEO PROCESSOR
IC03 EURO CCT
IC04 8KB STATIC RAM
IC01 MICRO CONTROLLER
Q07 BLK OUT
Q09,10,11 RGB OUT
Q05,14 PIC LEVEL
V
SHARP DGG Q4005
SHARP OFF Q4045
SHARP SW Q4024
SHARP Q4011
IC4002 VIDEO CONT
CHAR MIX Q4027,4028
CHAR OUT Q4029
OSP BLK Q4019
MUTE Q4033
MEMORY IC003
MEMORY IC002
SDA SW Q002
D
Q5001 NTSC SW
Q5001 PAL SW
Q5005 NTSC SW
Q5004 PAL SW
Q506 C.PULS BLK
Q511 V.DRIVE
Q509 V.OUT-1
Q510 V.OUT-2
DY
IC501
Q801 V.SAW-1
2505 SIZE COR
Q802 V.SAW-2
IC801 PIN DRIVE
Q803 PIN DRIVE
Q804 PIN OUT
Q507 V.CENT
Q508 V.CENT
Q502 V.SYNC
Q512 H.SYNC
Q504 H.BLK
Q514 V.ANG COR
IC802 H.V BUFF
Q805 H.DRIVE
Q513 BOW COR
Q862 QP DRIVE
Q861 QP OUT
Q860 QP OUT
D813 35V RECT
D812 15V RECT
D815 200V RECT
Q806 H.OUT
D816 G2 RECT
HDT
TO B
TO D
TO C
TO V
TO VM
TO Y
TO F2
TO J1

5-2. CIRCUIT BOARDS LOCATION


VM
C
D
F1
F2
H
A
J2
B
G
Q
J1
B1
V

- All voltages are in V.
- Readings are taken with a 10MΩ digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
- ━━ : B + line.
- ⇨ : signal path.

Reference information

RESISTOR	:	RN	METAL FILM
	:	RC	SOLID
	:	FPRD	NONFLAMMABLE CARBON
	:	FUSE	NONFLAMMABLE FUSIBLE
	:	RS	NONFLAMMABLE METAL OXIDE
	:	RB	NONFLAMMABLE CEMENT
	:	RW	NONFLAMMABLE WIREWOUND
COIL	:	LF-8L	MICRO INDUCTOR
CAPACITOR	:	TA	TANTALUM
	:	PS	STYROL
	:	PP	POLYPROPYLENE
	:	PT	MYLAR
	:	MPS	METALIZED POLYESTER
	:	MPP	METALIZED POLYPROPYLENE
	:	ALB	BIPOLAR
	:	ALT	HIGH TEMPERATURE
	:	ALR	HIGH RIPPLE

5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS — Conductor Side —

Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par une trame et par une marque ⚠ sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

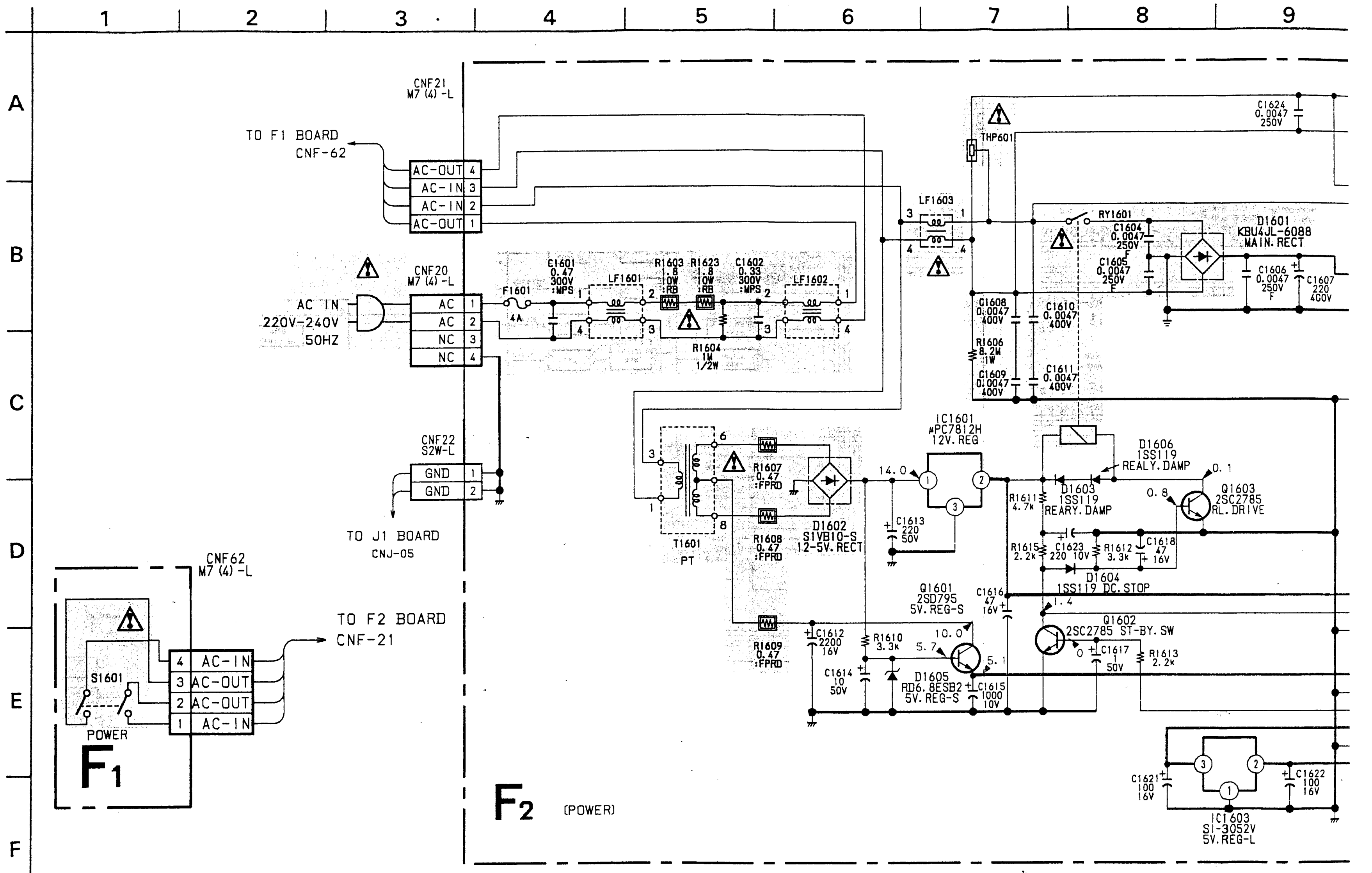
Note :

- All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

Pitch : 5mm
Rating electrical power : 1/4W

- Chip resistor is in 1/10W.
- All resistors are in ohms. kΩ = 1000Ω, MΩ = 1000k Ω
- : nonflammable resistor.
- : fusible resistor.
- △ : internal component.
- ▭ : panel designation.
- ▭ : adjustment for repair.
- All variable and adjustable resistors have characteristic curve B.unless otherwise noted.

F1 (POWER) **F2** (POWER)


1
2
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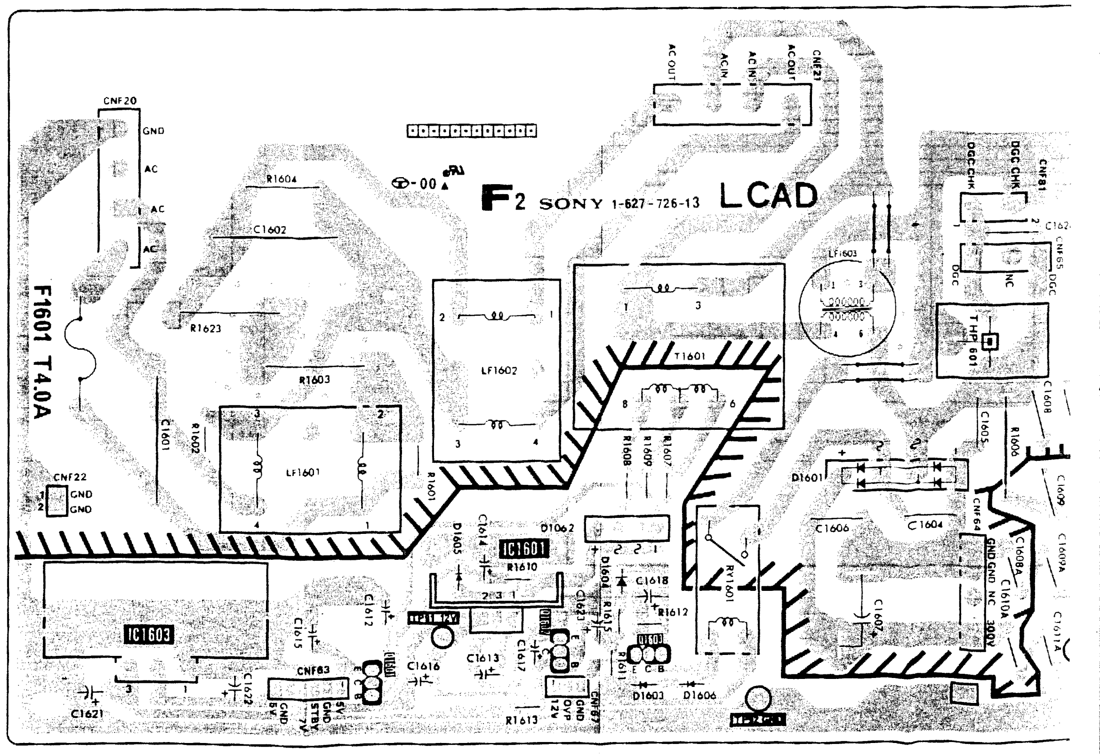
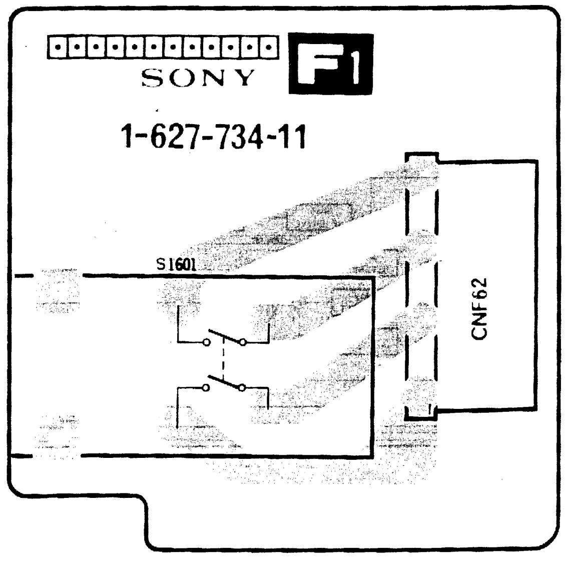
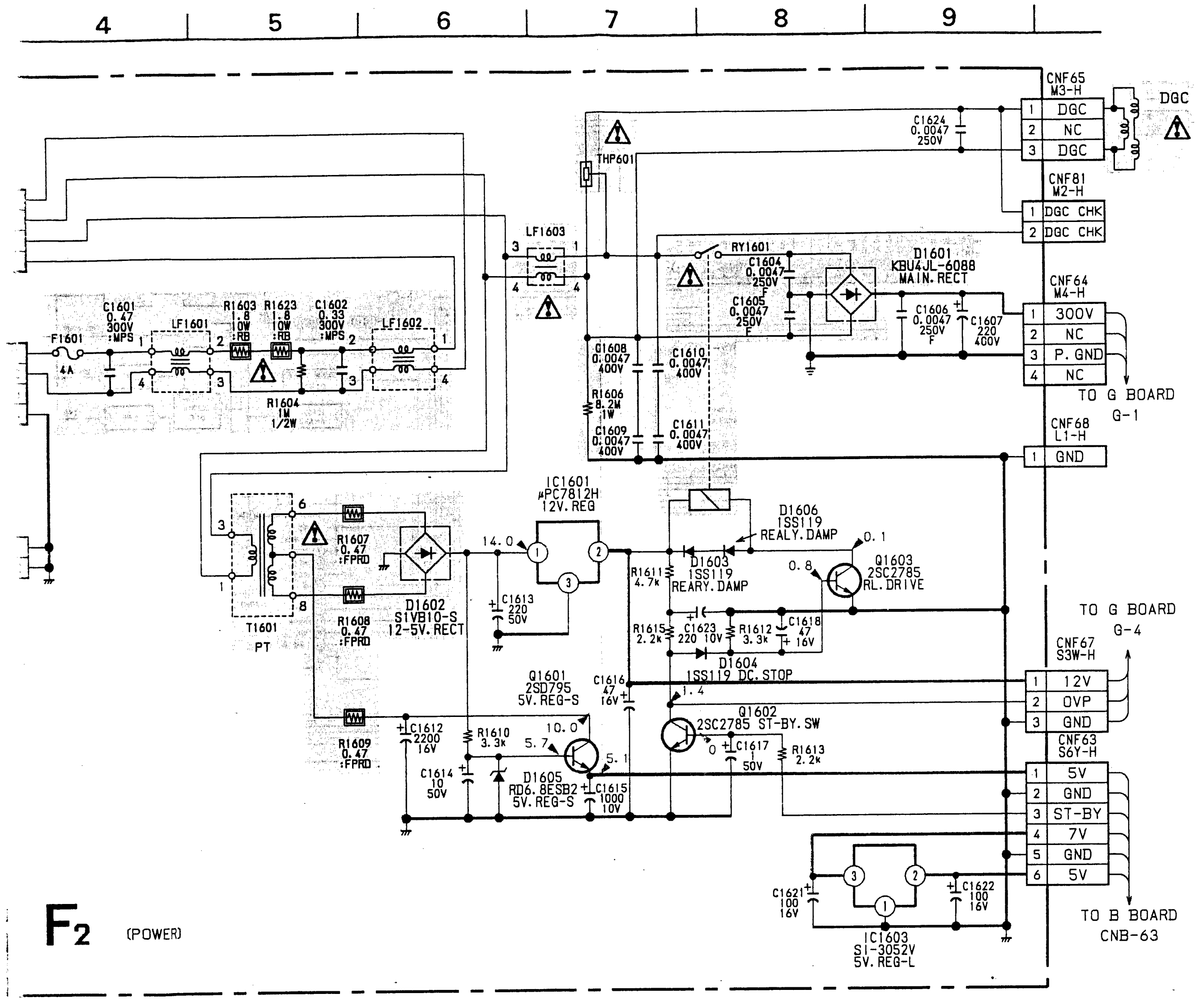
5
6
7
8
9
A
B
C
D
E
F
CNF21 M7 (4) -L
TO F1 BOARD CNF-62
AC-OUT 4
AC-IN 3
AC-IN 2
AC-OUT 1
CNF20 M7 (4) -L
AC IN 220V-240V 50HZ
AC 1
AC 2
NC 3
NC 4
F1601 4A
C1601 0.47 300V :MPS
LF1601
R1603 1.8 10W :RB
R1623 1.8 10W :RB
C1602 0.33 300V :MPS
LF1602
R1604 1M 1/2W
CNF22 S2W-L
GND 1
GND 2
TO J1 BOARD CNJ-05
CNF62 M7 (4) -L
S1601 POWER
AC-IN 4
AC-OUT 3
AC-OUT 2
AC-IN 1
F1
TO F2 BOARD CNF-21
F2 (POWER)
C1624 0.0047 250V
THP601
LF1603
RY1601
C1604 0.0047 250V
C1605 0.0047 250V
D1601 KBU4JL-6088 MAIN.RECT
C1606 0.0047 250V
C1607 220 400V
C1608 0.0047 400V
R1606 8.2M 1W
C1609 0.0047 400V
C1610 0.0047 400V
C1611 0.0047 400V
IC1601 μPC7812H 12V.REG
T1601 PT
R1607 0.47 :FPRD
D1602 S1VB10-S 12-5V.RECT
R1608 0.47 :FPRD
14.0
C1613 220 50V
D1606 1SS119 REALY.DAMP
D1603 1SS119 REARY.DAMP
R1611 4.7k
Q1603 2SC2785 RL.DRIVE
0.1
0.8
R1615 2.2k
C1623 220 10V
R1612 3.3k
C1618 47 16V
D1604 1SS119 DC.STOP
Q1601 2SD795 5V.REG-S
C1616 47 16V
1.4
Q1602 2SC2785 ST-BY.SW
R1609 0.47 :FPRD
C1612 2200 16V
R1610 3.3k
10.0
5.7
5.1
C1617 1 50V
R1613 2.2k
C1614 10 50V
D1605 RD6.8ESB2
C1615 1000 10V
C1621 100 16V
C1622 100 16V
IC1603 SI-3052V 5V.REG-L

— F2 Board —

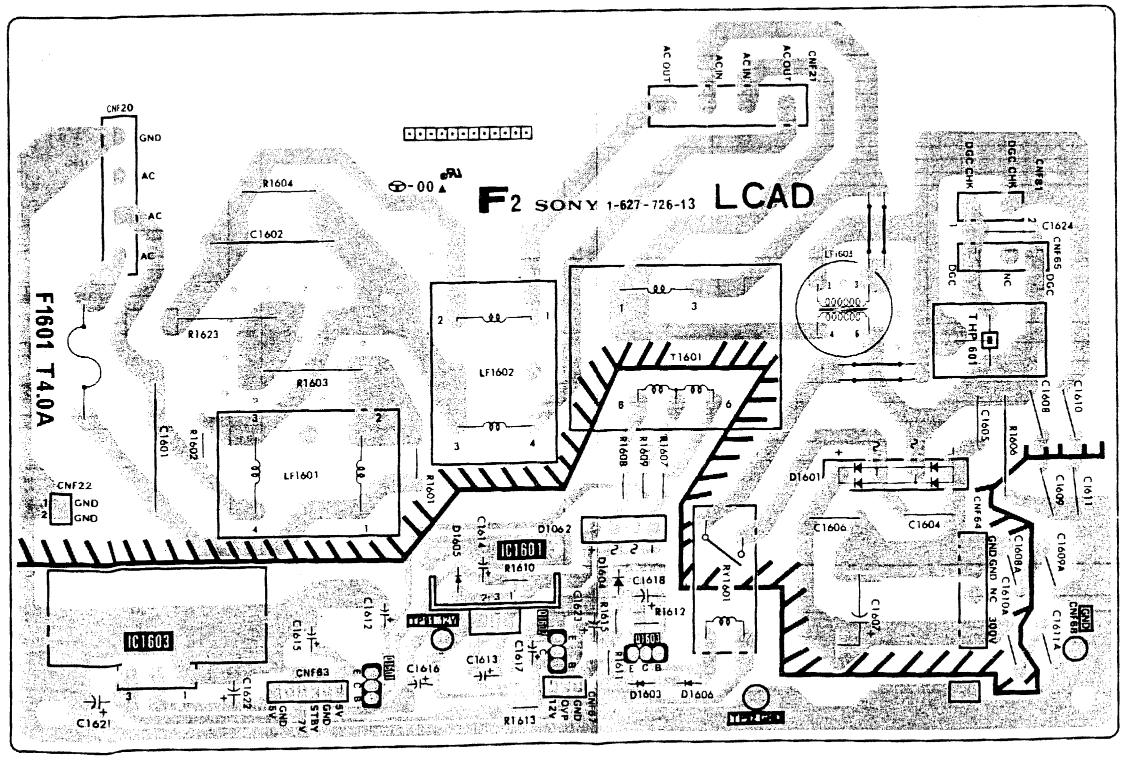

F2 SONY 1-627-726-13 LCAD
CNF20
F1601 T4.0A
CNF22
IC1603
IC1601
CNF63
C1621
LF1601
LF1602
R1603
R1604
C1602
T1601
D1601
RY1601
THP601

— F1 Board —

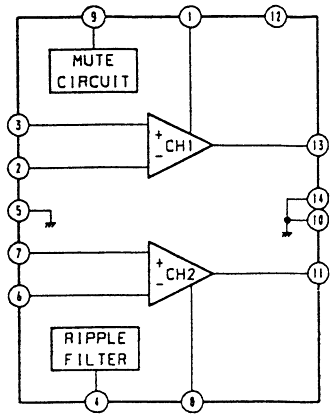

SONY
F1
1-627-734-11
S1601
CNF62


4
5
6
7
8
9
CNF65
M3-H
DGC
NC
DGC
C1624
0.0047
250V
THP601
CNF81
M2-H
DGC CHK
DGC CHK
LF1603
RY1601
C1604
0.0047
250V
C1605
0.0047
250V
D1601
KBU4JL-6088
MAIN. RECT
CNF64
M4-H
300V
NC
P. GND
NC
C1606
0.0047
250V
C1607
220
400V
TO G BOARD
G-1
C1601
0.47
300V
:MPS
F1601
4A
LF1601
R1603
1.8
10W
:RB
R1623
1.8
10W
:RB
C1602
0.33
300V
:MPS
LF1602
R1604
1M
1/2W
C1608
0.0047
400V
C1610
0.0047
400V
R1606
8.2M
1W
C1609
0.0047
400V
C1611
0.0047
400V
CNF68
L1-H
GND
IC1601
μPC7812H
12V. REG
D1606
1SS119
REALY. DAMP
T1601
PT
R1607
0.47
:FPRD
D1602
S1VB10-S
12-5V. RECT
R1608
0.47
:FPRD
14.0
C1613
220
50V
R1611
4.7k
D1603
1SS119
REARY. DAMP
0.8
Q1603
2SC2785
RL. DRIVE
0.1
R1615
2.2k
C1623
220 10V
R1612
3.3k
C1618
47
16V
D1604
1SS119 DC. STOP
TO G BOARD
G-4
CNF67
S3W-H
12V
OVP
GND
Q1601
2SD795
5V. REG-S
C1616
47
16V
1.4
Q1602
2SC2785 ST-BY. SW
C1612
2200
16V
R1610
3.3k
10.0
5.7
5.1
C1617
1
50V
R1613
2.2k
CNF63
S6Y-H
5V
GND
ST-BY
7V
GND
5V
R1609
0.47
:FPRD
C1614
10
50V
D1605
RD6. 8ESB2
5V. REG-S
C1615
1000
10V
C1621
100
16V
C1622
100
16V
IC1603
SI-3052V
5V. REG-L
TO B BOARD
CNB-63

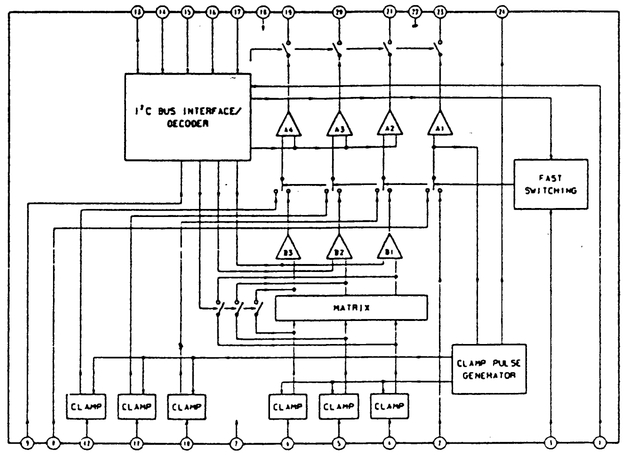
F2 (POWER)


F2 SONY 1-627-726-13 LCAD
F1601 T4.0A
CNF20
GND
AC
AC
AC
AC OUT
ACIN
ACIN
ACOUT
CNF21
R1604
C1602
R1623
R1603
LF1602
LF1601
C1601
R1602
T1601
LF1603
THP601
DGC
DGC CHK
CNF81
CNF65
C1624
CNF22
GND
GND
IC1601
IC1603
D1605
D1062
D1601
C1606
C1604
CNF64
R1606
C1608
C1609
C1610
C1611
RY1601
C1618
R1612
C1615
C1616
C1613
C1617
CNF63
CNF67
R1613
D1603
D1606
C1622
C1621

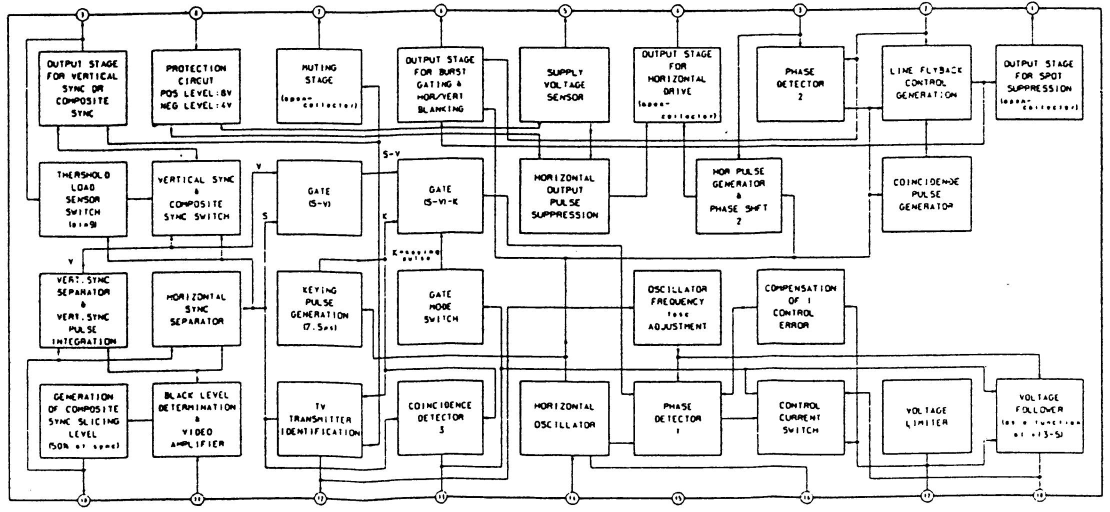
B BOARD IC251 LA4280


MUTE CIRCUIT
CH1
CH2
RIPPLE FILTER
9
1
12
3
2
5
7
6
13
14
10
11
4
8

B BOARD IC402 TDA8443A

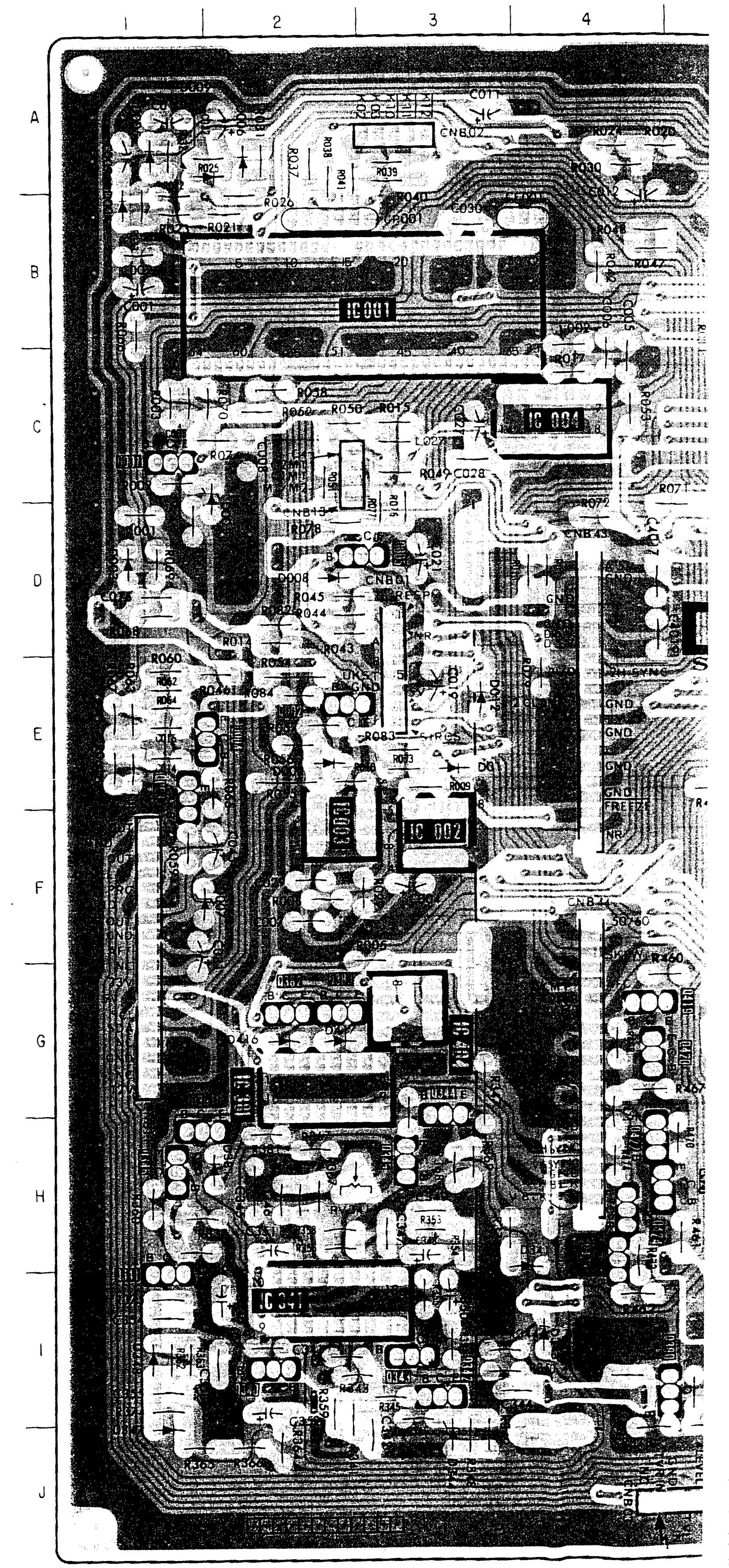

I²C BUS INTERFACE/ DECODER
FAST SWITCHING
MATRIX
CLAMP PULSE GENERATOR
CLAMP
CLAMP
CLAMP
CLAMP
CLAMP
CLAMP

B BOARD IC341 TDA2595-V7

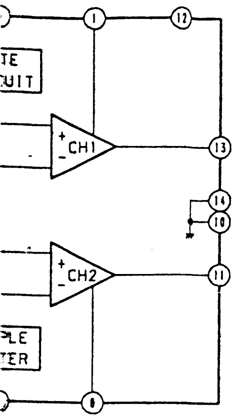

OUTPUT STAGE FOR VERTICAL SYNC OR COMPOSITE SYNC
PROTECTION CIRCUIT POS LEVEL:8V NEG LEVEL:4V
MUTING STAGE (open-collector)
OUTPUT STAGE FOR BURST GATING & HOR/VERT BLANKING
SUPPLY VOLTAGE SENSOR
OUTPUT STAGE FOR HORIZONTAL DRIVE (open-collector)
PHASE DETECTOR 2
LINE FLYBACK CONTROL GENERATION
OUTPUT STAGE FOR SPOT SUPPRESSION (open-collector)
THERSHOLD LOAD SENSOR SWITCH (pin 9)
VERTICAL SYNC & COMPOSITE SYNC SWITCH
GATE (S-V)
GATE (S-V)-K
HORIZONTAL OUTPUT PULSE SUPPRESSION
HOR PULSE GENERATOR & PHASE SHFT 2
COINCIDENCE PULSE GENERATOR
VERT. SYNC SEPARATOR & VERT. SYNC PULSE INTEGRATION
HORIZONTAL SYNC SEPARATOR
KEYING PULSE GENERATION (7.5μs)
GATE MODE SWITCH
OSCILLATOR FREQUENCY (ext) ADJUSTMENT
COMPENSATION OF I CONTROL ERROR
GENERATION OF COMPOSITE SYNC SLICING LEVEL (50% of sync)
BLACK LEVEL DETERMINATION & VIDEO AMPLIFIER
TV TRANSMITTER IDENTIFICATION
COINCIDENCE DETECTOR 3
HORIZONTAL OSCILLATOR
PHASE DETECTOR 1
CONTROL CURRENT SWITCH
VOLTAGE LIMITER
VOLTAGE FOLLOWER (as a function of +13-S)
S-V
V
S
K
Keying pulse

B (COMMANDER CTL R. G. B. OUT, AF OUT)

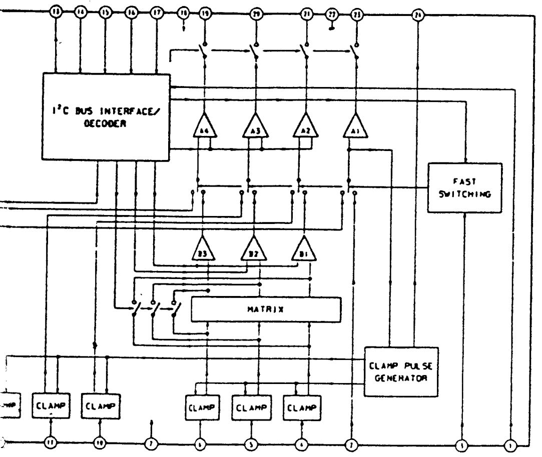
— B Board —

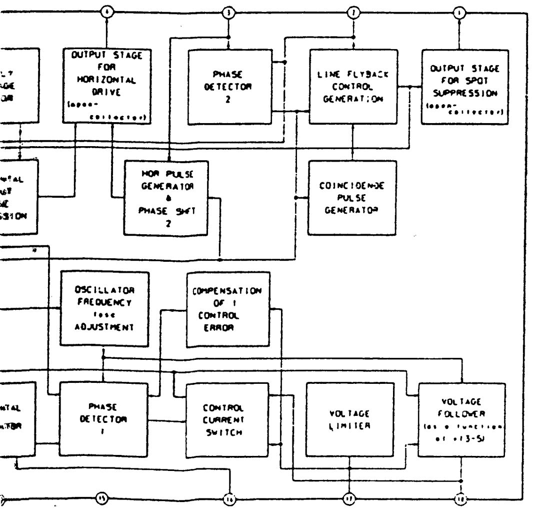

1
2
3
4
A
B
C
D
E
F
G
H
I
J
IC001
IC004
IC002
CNB02
R039
R041
R038
R037
R025
R026
R021
R018
R060
R050
R015
R077
R071
R049
C028
R078
R045
R044
R060
R043
R083
R009
R353
CNB4
GND
GND
GND
FRE
NR

RD IC251 LA4280


TE
UIT
CH1
CH2
PLE
TER
12
13
14
10
11
8

RD IC402 TDA8443A

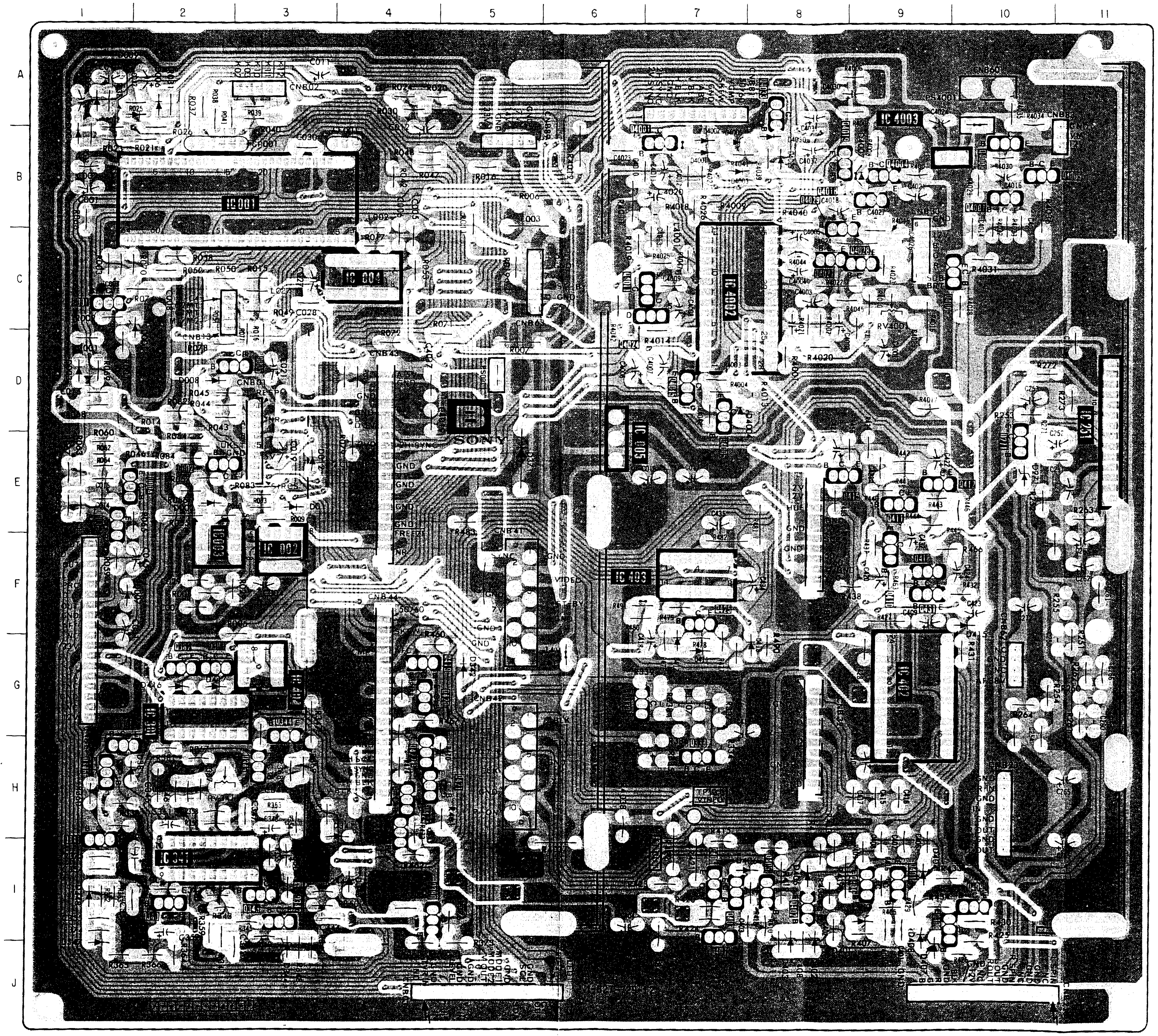

I²C BUS INTERFACE/ DECODER
FAST SWITCHING
MATRIX
CLAMP PULSE GENERATOR
CLAMP
CLAMP
CLAMP
CLAMP
CLAMP


OUTPUT STAGE FOR HORIZONTAL DRIVE (open-collector)
PHASE DETECTOR 2
LINE FLYBACK CONTROL GENERATION
OUTPUT STAGE FOR SPOT SUPPRESSION (open-collector)
HOR PULSE GENERATOR & PHASE SHFT 2
COINCIDENCE PULSE GENERATOR
OSCILLATOR FREQUENCY fine ADJUSTMENT
COMPENSATION OF I CONTROL ERROR
PHASE DETECTOR 1
CONTROL CURRENT SWITCH
VOLTAGE LIMITER
VOLTAGE FOLLOWER (as a function of +13-5)

B (COMMANDER CTL R. G. B. OUT, AF OUT)

● : Conductor side pattern
● : Component side pattern

— B Board —


1
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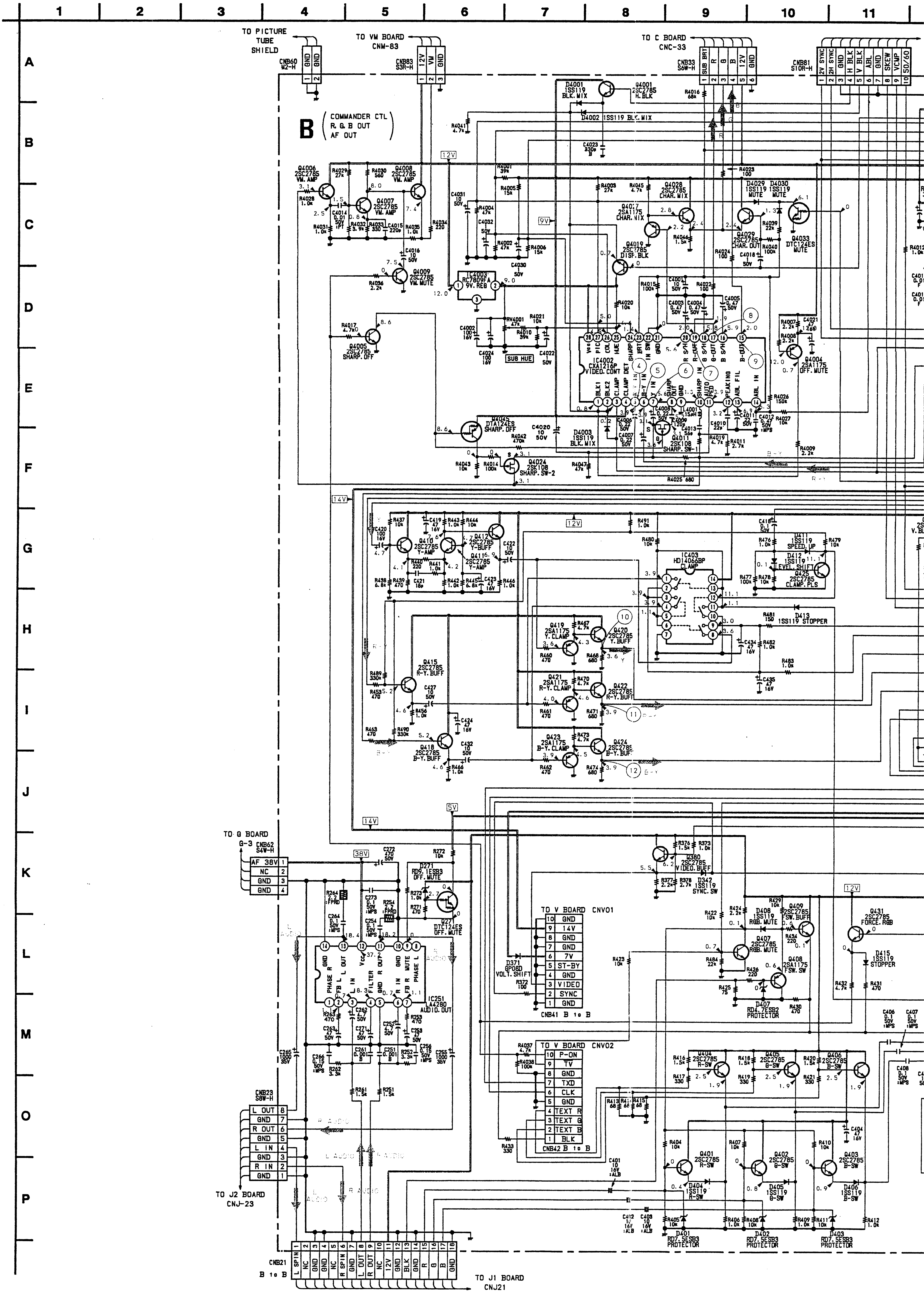
11
A
B
C
D
E
F
G
H
I
J
IC001
IC002
IC004
IC005
IC4003
IC4002
IC251
IC403
IC402
IC341
SONY

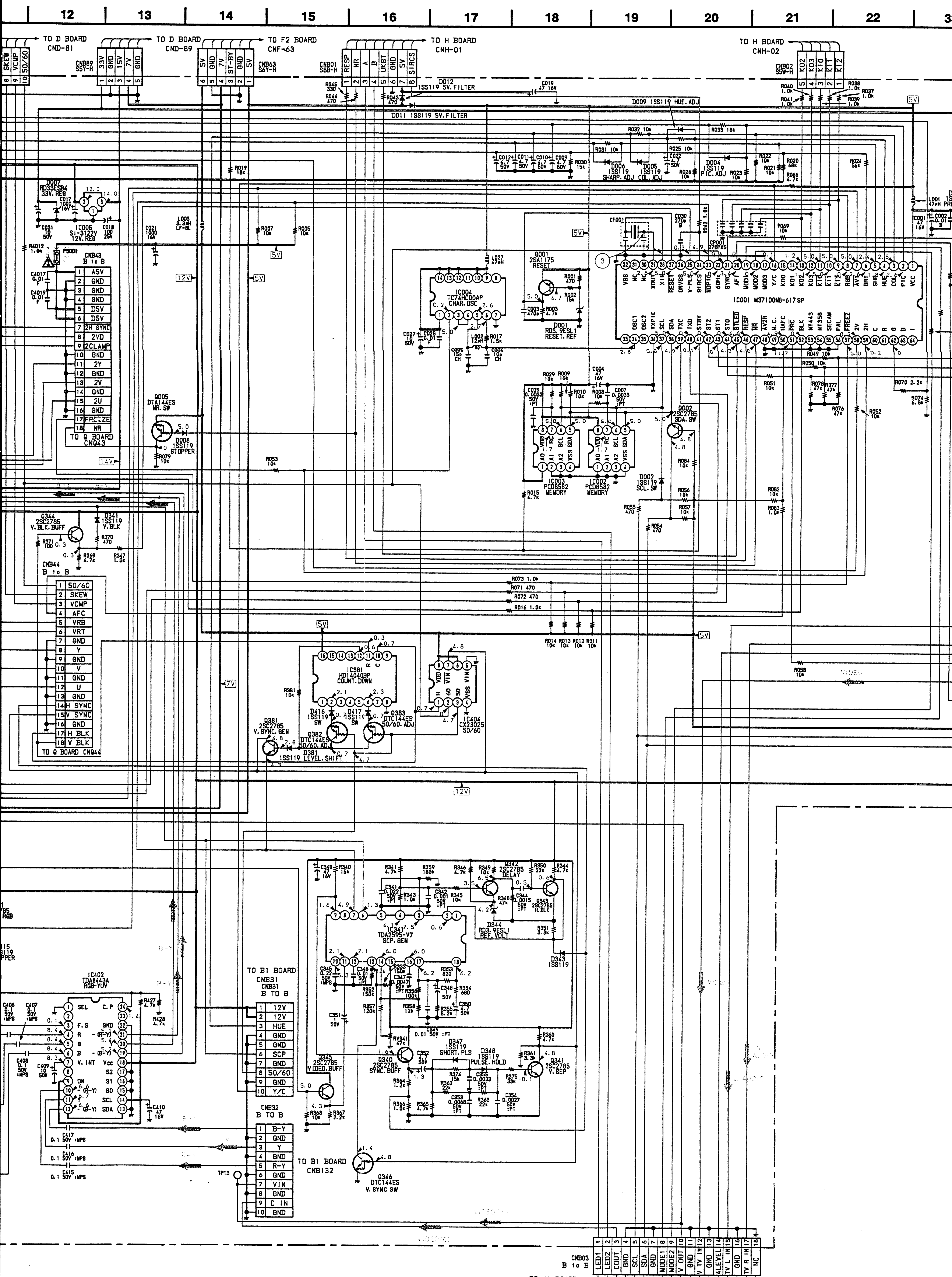
IC	
IC001	B-3
IC002	F-3
IC003	F-2
IC004	C-4
IC005	E-6
IC251	D-11
IC341	I-2
IC381	G-2
IC402	G-9
IC403	F-7
IC404	G-3
IC4002	C-7
IC4003	B-9

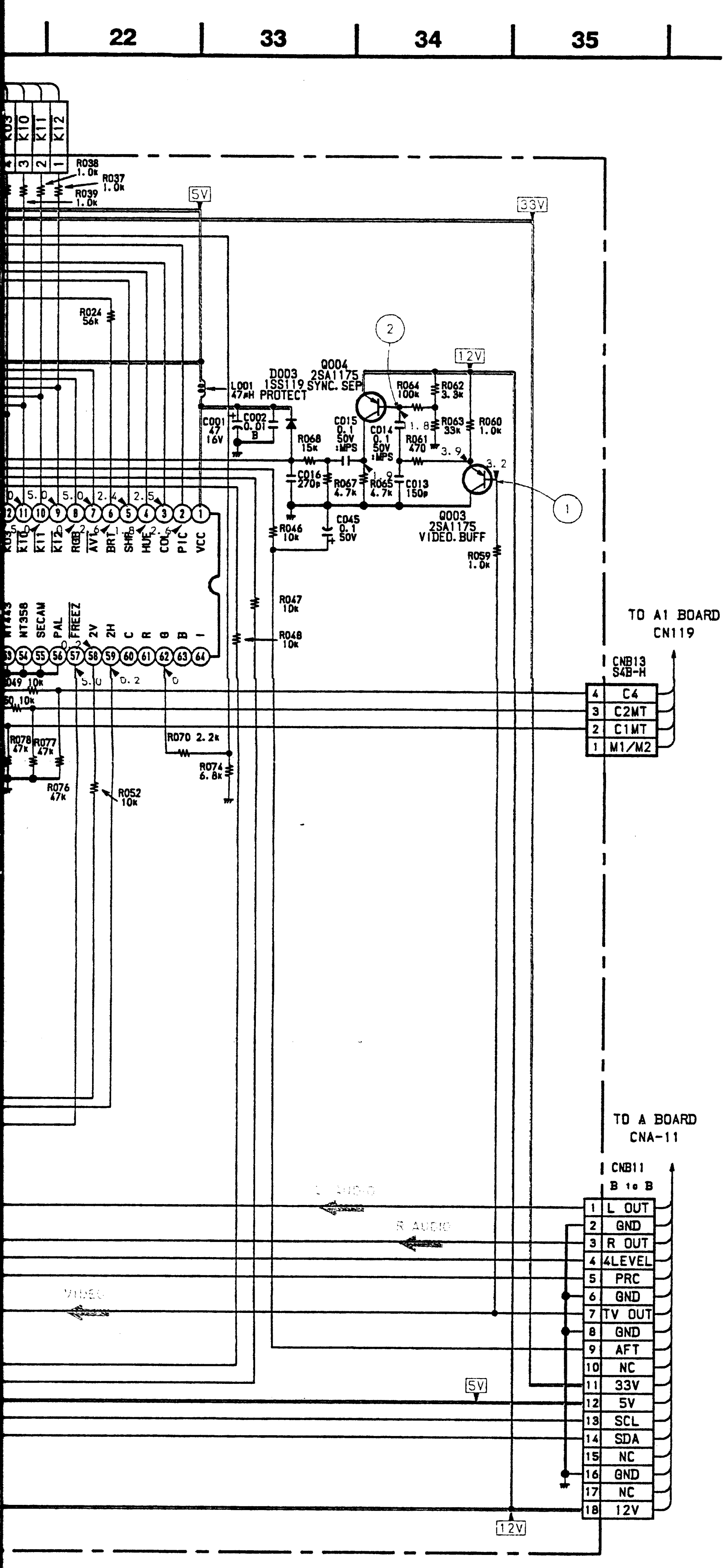
TRANSISTOR	
Q001	C-1
Q002	E-2
Q003	E-1
Q004	E-1
Q005	D-2
Q271	E-10
Q340	I-2
Q341	H-1
Q342	I-3
Q343	I-3
Q344	G-3
Q345	H-3
Q346	H-1
Q380	I-4
Q381	H-1
Q382	G-2
Q383	G-2
Q401	I-9
Q402	I-8
Q403	I-7
Q404	I-9
Q405	I-8
Q406	I-7
Q407	I-7
Q408	I-9
Q409	I-10
Q410	F-9
Q411	E-9
Q412	E-9
Q415	E-8
Q418	F-9
Q419	G-4
Q420	G-4
Q421	H-4
Q422	H-4
Q423	H-4
Q424	H-4
Q425	F-7
Q431	F-9
Q4001	B-7
Q4004	B-9
Q4005	D-7
Q4006	C-9
Q4007	B-10
Q4008	B-10
Q4009	B-10
Q4011	C-7
Q4019	B-8
Q4024	C-7
Q4027	C-8
Q4028	C-9
Q4029	B-8
Q4033	A-8
Q4045	D-7

DIODE	
D001	C-1
D002	E-2
D003	D-1
D004	B-1
D005	A-1
D006	A-2
D007	F-1
D008	D-2
D009	A-1
D011	E-3
D012	E-3
D271	E-10
D341	H-4
D342	G-5
D343	I-4
D344	J-3
D347	I-1
D348	I-1
D371	E-5
D381	H-1
D401	I-9
D402	I-8
D403	I-8
D404	I-9
D405	I-8
D406	I-8
D407	J-9
D408	I-9
D411	G-7
D412	G-7
D413	G-8
D415	F-10
D416	G-2
D417	G-2
D4001	B-7
D4002	B-7
D4003	B-7
D4029	B-8
D4030	B-8

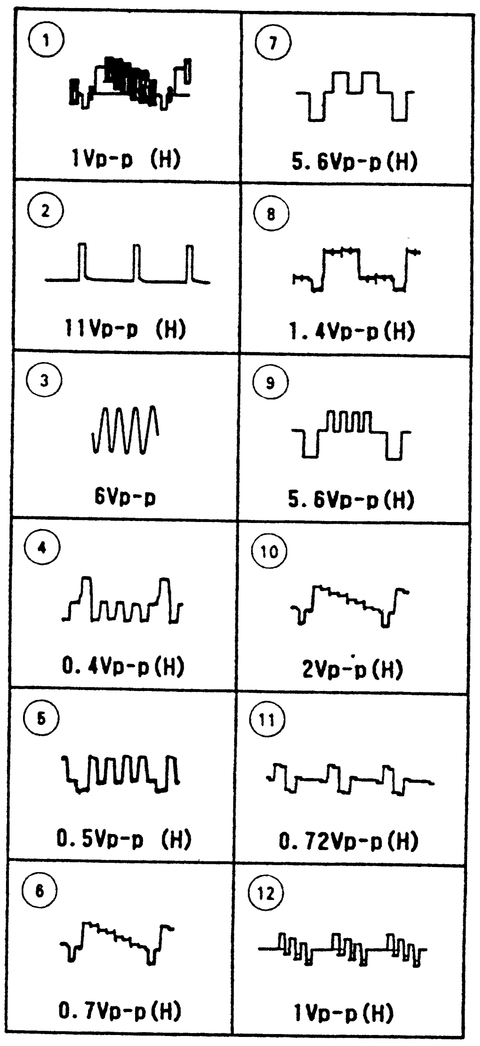
VARIABLE RESISTOR	
RV341	H-2
RV4001	C-9

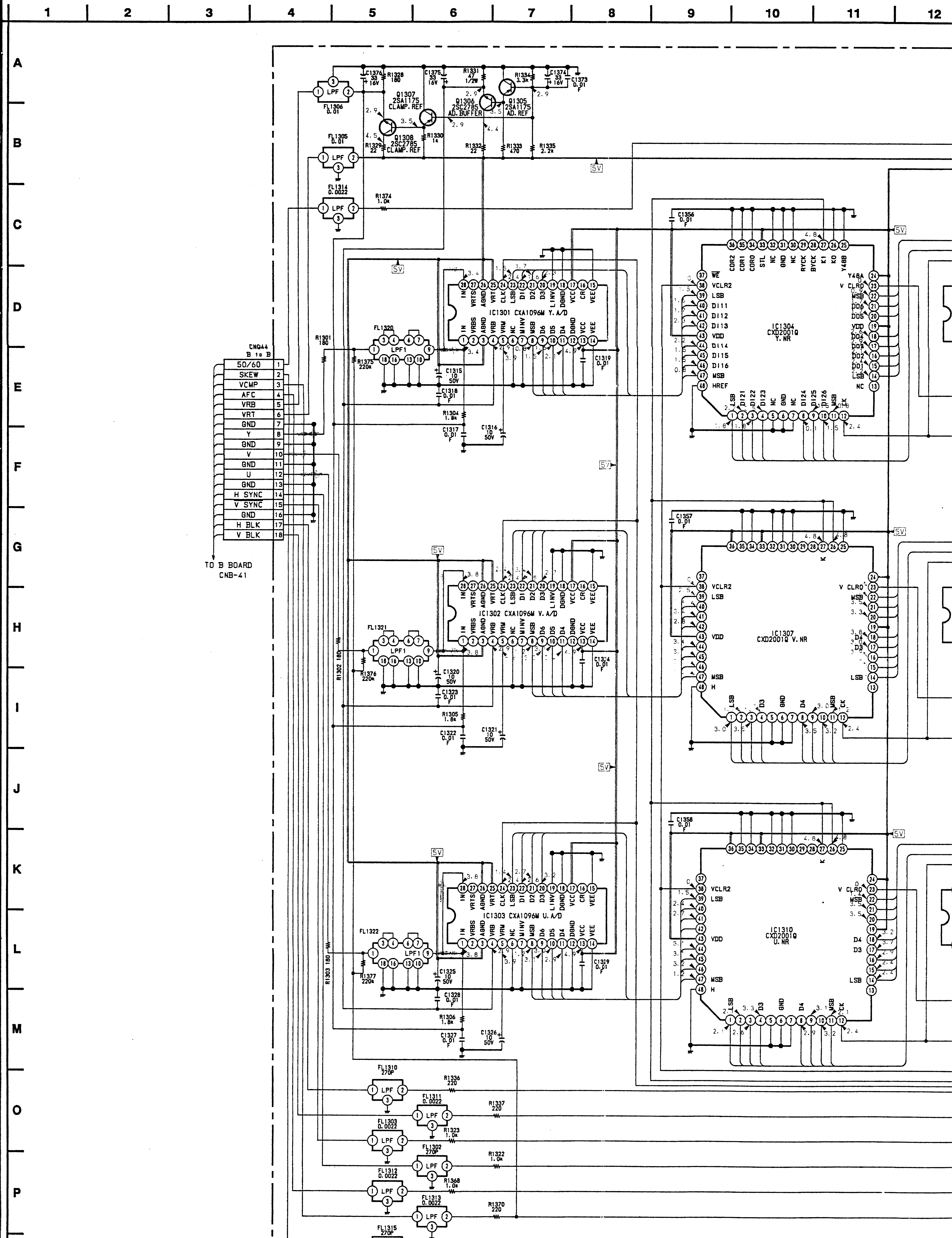

B
COMMANDER CTL
R, G & B OUT
AF OUT
TO PICTURE TUBE SHIELD
CNB60 M2-H
TO VM BOARD CNM-83
CNB83 S3R-H
TO C BOARD CNC-33
CNB33 S6W-H
CNB81 S10R-H
IC4002 CXA1216P VIDEO. CONT
IC4003 RC7809FA 9V. REG
IC403 HD14066BP CLAMP
IC251 LA4280 AUDIO. OUT
TO G BOARD G-3
CNB62 S4W-H
TO V BOARD CNV01
CNB41 B to B
TO V BOARD CNV02
CNB42 B to B
CNB23 S8W-H
TO J2 BOARD CNJ-23
CNB21 B to B
TO J1 BOARD CNJ21
SUB HUE
12V
9V
14V
5V
38V

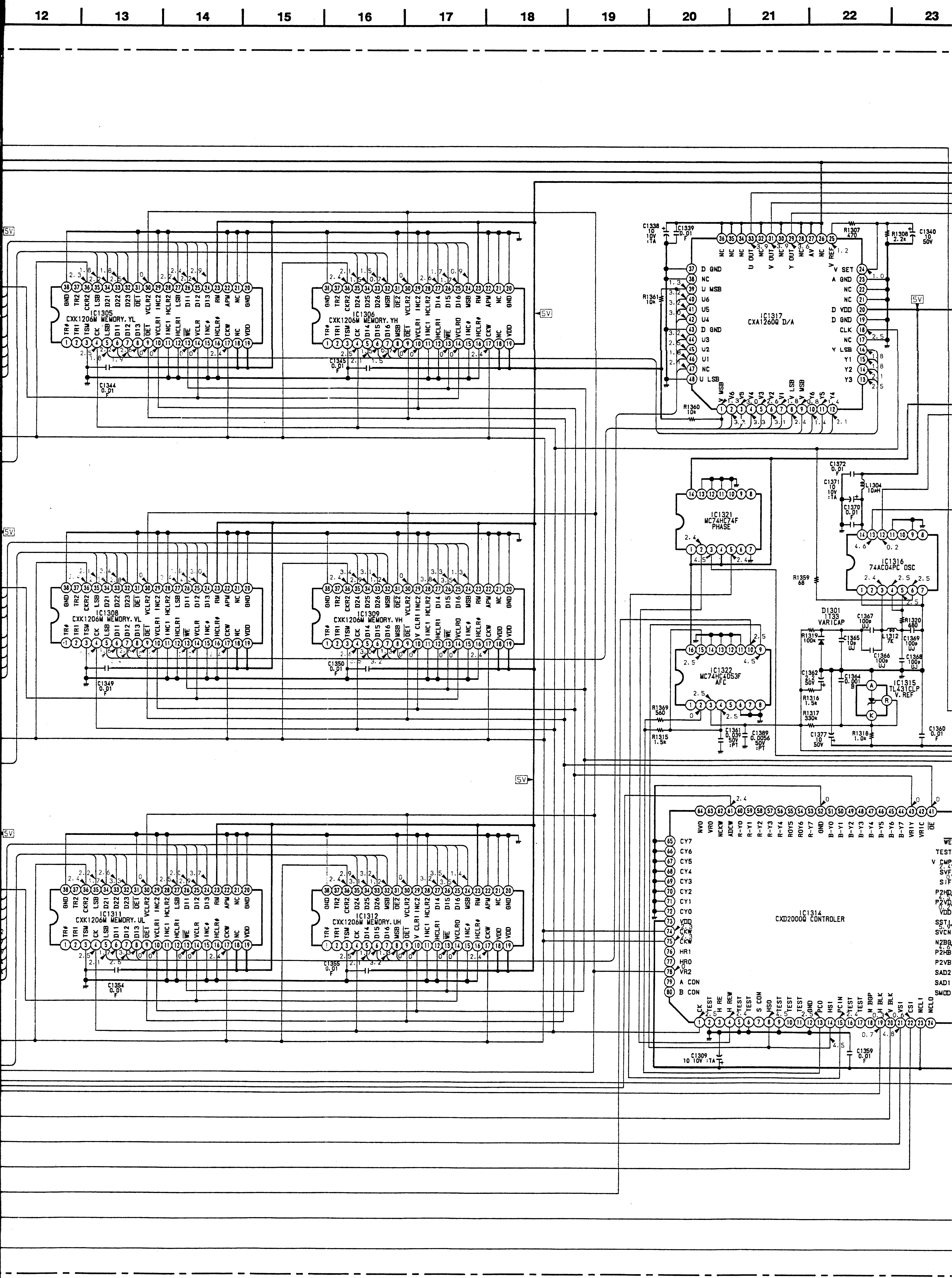

12
13
14
15
16
17
18
19
20
21
22
TO D BOARD CND-81
TO D BOARD CND-89
TO F2 BOARD CNF-63
TO H BOARD CNH-01
TO H BOARD CNH-02
CNB89 S5Y-H
CNB63 S6Y-H
CNB01 S8B-H
CNB02 S5W-H
D012 1SS119 5V.FILTER
D011 1SS119 5V.FILTER
D009 1SS119 HUE.ADJ
D006 1SS119 SHARP.ADJ
D005 1SS119 COL.ADJ
D004 1SS119 PIC.ADJ
D007 RD33ESB4 33V.REG
IC005 SI-3122V 12V.REG
CNB43 B to B
A5V
GND
D5V
2H SYNC
2VD
2CLAMP
2Y
2V
2U
FREEZE
NR
TO Q BOARD CNQ43
Q005 DTA144ES NR.SW
D008 1SS119 STOPPER
Q001 2SA1175 RESET
D001 RD3.9ESL1 RESET.REF
IC004 TC74HC00AP CHAR.OSC
IC001 M37100M8-617SP
IC003 PCB8582 MEMORY
IC002 PCB8582 MEMORY
Q002 2SC2785 SDA.SW
D002 1SS119 SCL.SW
Q344 2SC2785 V.BLK.BUFF
D341 1SS119 V.BLK
CNB44 B to B
50/60
SKEW
VCMP
AFC
VRB
VRT
GND
Y
V
U
H SYNC
V SYNC
H BLK
V BLK
TO Q BOARD CNQ44
IC381 HD14040BP COUNT.DOWN
Q381 2SC2785 V.SYNC.GEN
Q382 DTC144ES 50/60.ADJ
Q383 DTC144ES 50/60.ADJ
D381 1SS119 LEVEL.SHIFT
IC404 CX23025 50/60
IC341 TDA2595-V7 SCP.GEN
Q342 2SC2785 DELAY
Q343 2SC2785 H.BLK
D344 RD3.9ESL1 REF.VOLT
D343 1SS119
Q345 2SC2785 VIDEO.BUFF
Q340 2SC2785 SYNC.BUFF
D347 1SS119 SHORT.PLS
D348 1SS119 PULSE.HOLD
Q341 2SC2785 V.SEP
Q346 DTC144ES V.SYNC SW
IC402 TDA8443A RGB-YUV
TO B1 BOARD CNB31
CNB31 B TO B
12V
HUE
SCP
50/60
Y/C
CNB32 B TO B
B-Y
R-Y
VIN
C IN
TO B1 BOARD CNB132
TP13
CNB03 B to B
TO J1 BOARD CNJ03
LED1
LED2
COUT
SCL
SDA
MODE1
MODE2
V OUT
V TV IN
4LEVEL IN
TV L IN
TV R IN
NC
5V
12V
7V
14V

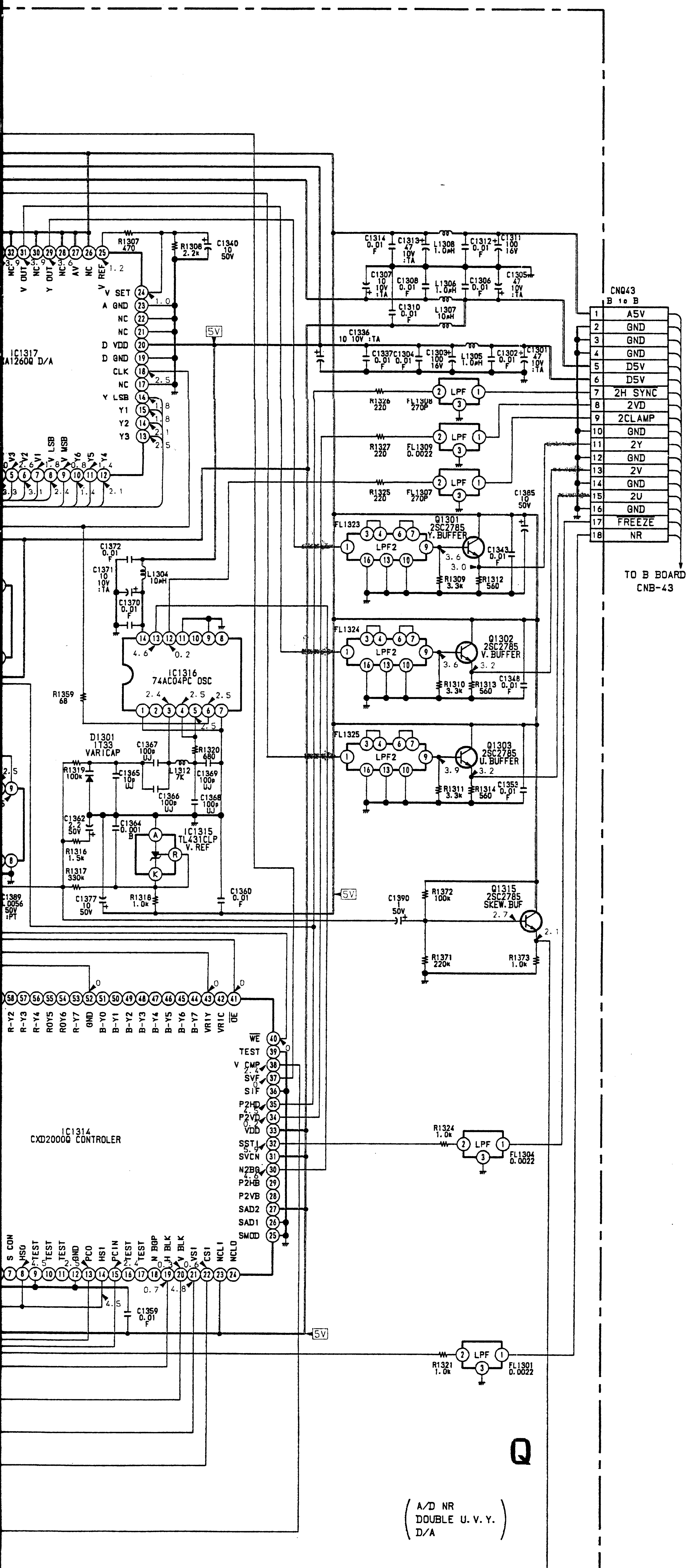

22
33
34
35
36
37
38
39
40
41
42
A
B
C
D
E
F
G
H
I
J
K
L
M
O
P
K03
K10
K11
K12
R038 1.0k
R037 1.0k
R039 1.0k
5V
33V
R024 56k
12V
Q004 2SA1175 SYNC. SEP
D003 1SS119 PROTECT
L001 47μH
C001 47 16V
C002 0.01 B
R064 100k
R062 3.3k
R063 33k
R060 1.0k
C015 0.1 50V :MPS
C014 0.1 50V :MPS
R061 470
R068 15k
C016 270p
R067 4.7k
R065 4.7k
C013 150p
C045 0.1 50V
R046 10k
Q003 2SA1175 VIDEO. BUFF
R059 1.0k
VCC
PIC
COL
HUE
SHR
BRT
AVL
RGB
NT358
SECAM
PAL
FREEZ
2V
2H
C
R
G
B
I
R047 10k
R048 10k
R049 10k
R050 10k
R070 2.2k
R074 6.8k
R078 47k
R077 47k
R076 47k
R052 10k
TO A1 BOARD CN119
CNB13 S4B-H
4 C4
3 C2MT
2 C1MT
1 M1/M2
TO A BOARD CNA-11
CNB11 B to B
1 L OUT
2 GND
3 R OUT
4 4LEVEL
5 PRC
6 GND
7 TV OUT
8 GND
9 AFT
10 NC
11 33V
12 5V
13 SCL
14 SDA
15 NC
16 GND
17 NC
18 12V
L AUDIO
R AUDIO
VIDEO
5V
12V

WAVEFORMS B BOARD


①
1Vp-p (H)
⑦
5.6Vp-p (H)
②
11Vp-p (H)
⑧
1.4Vp-p (H)
③
6Vp-p
⑨
5.6Vp-p (H)
④
0.4Vp-p (H)
⑩
2Vp-p (H)
⑤
0.5Vp-p (H)
⑪
0.72Vp-p (H)
⑥
0.7Vp-p (H)
⑫
1Vp-p (H)

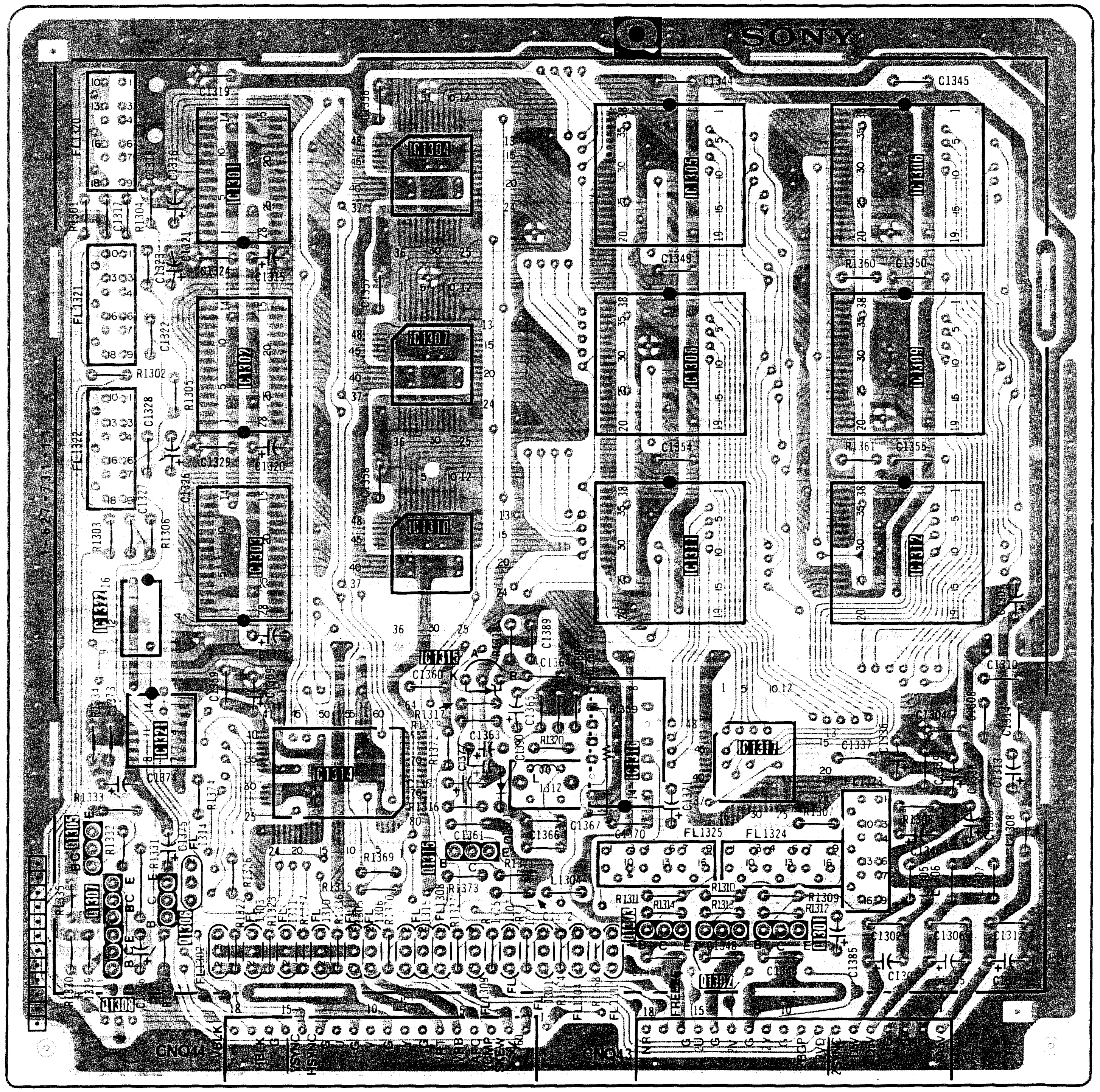

1
2
3
4
5
6
7
8
9
10
11
12
A
B
C
D
E
F
G
H
I
J
K
L
M
N
O
P
CNQ44
B to B
50/60
SKEW
VCMP
AFC
VRB
VRT
GND
Y
GND
V
GND
U
GND
H SYNC
V SYNC
GND
H BLK
V BLK
TO B BOARD
CNB-41
FL1306 0.01
FL1305 0.01
FL1314 0.0022
LPF
R1374 1.0k
C1376 33 16V
R1328 180
Q1307 2SA1175 CLAMP.REF
Q1308 2SC2785 CLAMP.REF
R1329 22
R1330 1k
C1375 33 16V
R1331 47 1/2W
Q1306 2SC2785 AD.BUFFER
R1332 22
R1333 470
R1334 3.3k
Q1305 2SA1175 AD.REF
R1335 2.2k
C1374 33 16V
C1373 0.01 F
5V
FL1320
LPF1
R1301 180
R1375 220k
C1315 10 50V
C1318 0.01 F
R1304 1.8k
C1317 0.01 F
C1316 10 50V
C1319 0.01 F
IC1301 CXA1096M Y.A/D
IN
VRTS
AGND
VRT
CLK
LSB
D1
D2
D3
LINV
DGND
VCC
CR
VEE
VRBS
VRB
VRM
NC
MINV
MSB
D6
D5
D4
FL1321
R1302 180
R1376 220k
C1320 10 50V
C1323 0.01 F
R1305 1.8k
C1322 0.01 F
C1321 10 50V
C1324 0.01 F
IC1302 CXA1096M V.A/D
FL1322
R1303 180
R1377 220k
C1325 10 50V
C1328 0.01 F
R1306 1.8k
C1327 0.01 F
C1326 10 50V
C1329 0.01 F
IC1303 CXA1096M U.A/D
C1356 0.01 F
IC1304 CXD2001Q Y.NR
WE
VCLR2
LSB
DI11
DI12
DI13
VDD
DI14
DI15
DI16
MSB
HREF
COR2
COR1
COR0
STL
NC
GND
RYCK
BYCK
K1
K0
Y48B
Y48A
V CLR0
MSB
D06
D05
D04
D03
D02
D01
LSB
DI21
DI22
DI23
DI24
DI25
DI26
CK
C1357 0.01 F
IC1307 CXD2001Q V.NR
H
D3
D4
C1358 0.01 F
IC1310 CXD2001Q U.NR
FL1310 270P
R1336 220
FL1311 0.0022
R1337 220
FL1303 0.0022
R1323 1.0k
FL1302 270P
R1322 1.0k
FL1312 0.0022
R1368 1.0k
FL1313 0.0022
R1370 220
FL1315 270P


12
13
14
15
16
17
18
19
20
21
22
23
5V
IC1305
CXK1206M MEMORY. YL
IC1306
CXK1206M MEMORY. YH
IC1308
CXK1206M MEMORY. VL
IC1309
CXK1206M MEMORY. VH
IC1311
CXK1206M MEMORY. UL
IC1312
CXK1206M MEMORY. UH
IC1317
CXA1260Q D/A
IC1321
MC74HC74F
PHASE
IC1322
MC74HC4053F
AFC
IC1316
74AC04PC OSC
IC1315
TL431CLP
V. REF
D1301
1T33
VARICAP
IC1314
CXD2000Q CONTROLER
C1344
0.01
F
C1345
0.01
F
C1349
0.01
F
C1350
0.01
F
C1354
0.01
F
C1355
0.01
F
C1338
10
10V
:TA
C1339
0.01
F
R1307
470
R1308
2.2k
C1340
10
50V
R1361
10k
R1360
10k
C1372
0.01
F
C1371
10
10V
:TA
L1304
10μH
C1370
0.01
F
R1359
68
C1367
100p
UJ
R1320
680
R1319
100k
C1365
10p
UJ
L1312
7K
C1369
100p
UJ
C1366
100p
UJ
C1368
100p
UJ
C1362
2.2
50V
C1364
0.001
B
R1316
1.5k
R1317
330k
C1377
10
50V
R1318
1.0k
C1360
0.01
F
R1369
560
R1315
1.5k
C1361
0.039
50V
:PT
C1389
0.0056
50V
:PT
C1309
10 10V :TA
C1359
0.01
F


IC1317
CXA1260Q D/A
IC1316
74AC04PC OSC
D1301
1T33
VARICAP
IC1315
TL431CLP
V.REF
IC1314
CXD2000Q CONTROLER
Q1301
2SC2785
Y.BUFFER
Q1302
2SC2785
V.BUFFER
Q1303
2SC2785
U.BUFFER
Q1315
2SC2785
SKEW.BUF
CN043
B to B
1 A5V
2 GND
3 GND
4 GND
5 D5V
6 D5V
7 2H SYNC
8 2VD
9 2CLAMP
10 GND
11 2Y
12 GND
13 2V
14 GND
15 2U
16 GND
17 FREEZE
18 NR
TO B BOARD
CNB-43
5V
LPF
LPF2
Q
(A/D NR
DOUBLE U.V.Y.
D/A)

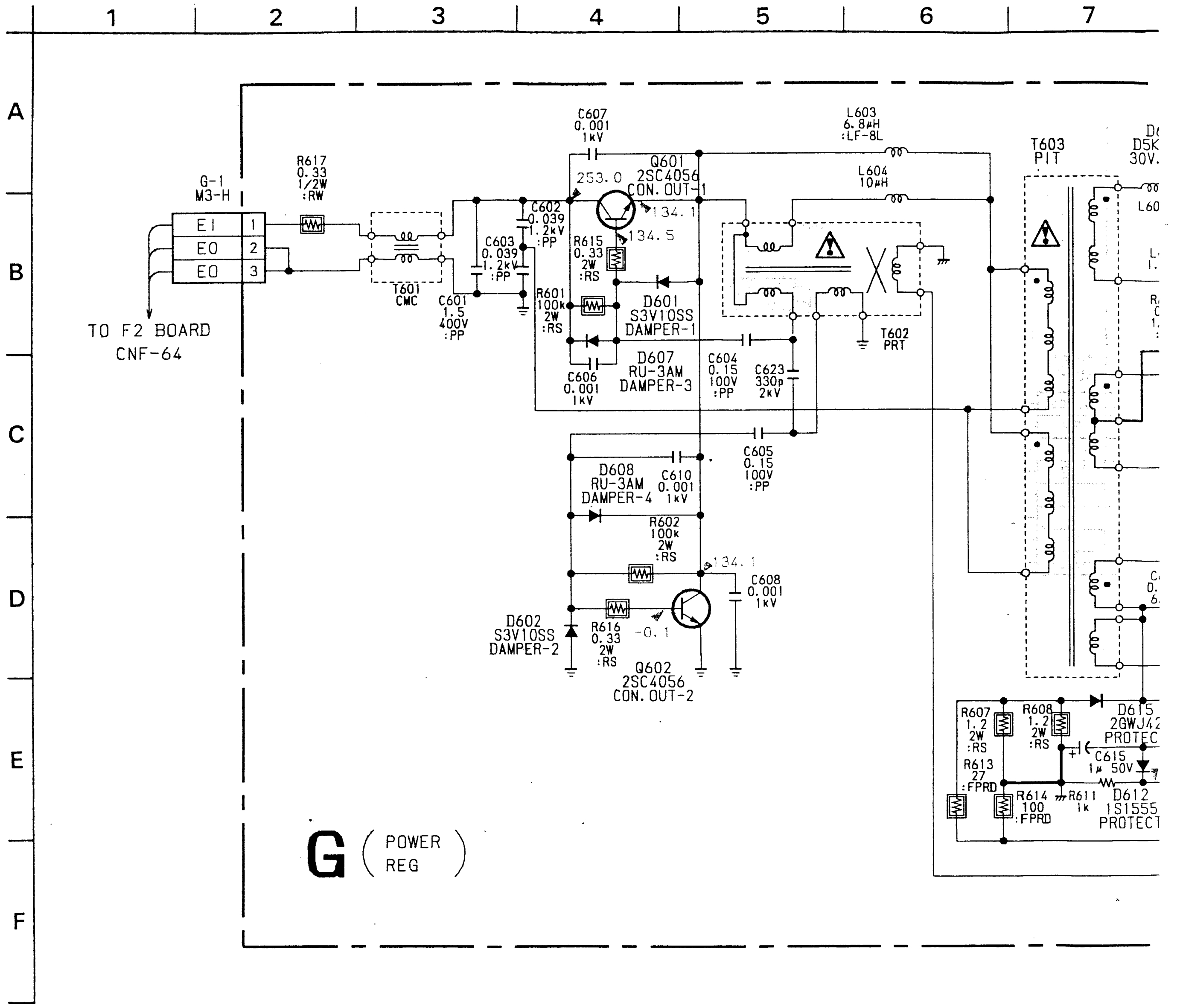
Q (A/D NR DOUBLE U.V.Y D/A)

— Q Board —

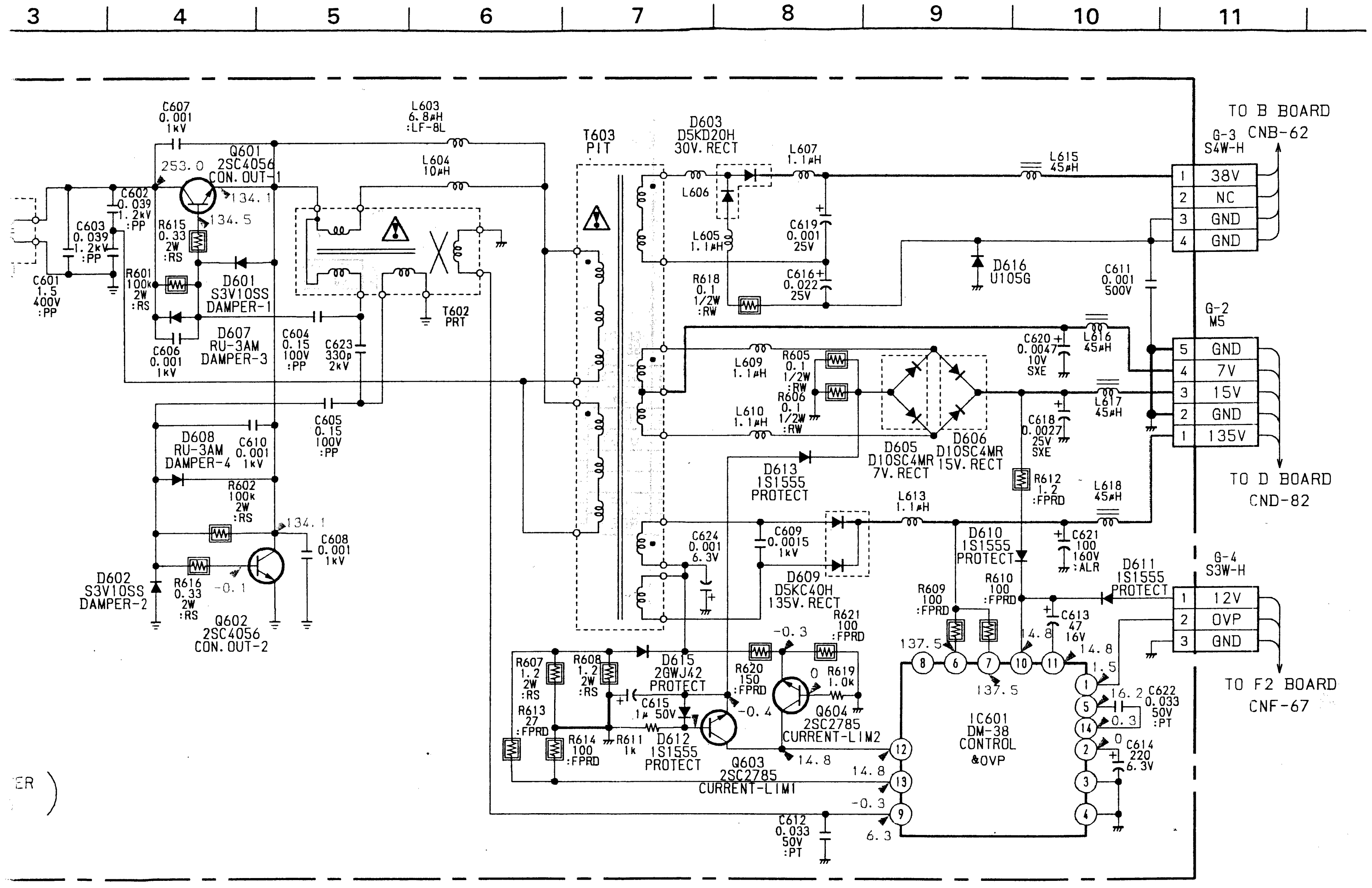

SONY
Q
IC1301
IC1302
IC1303
IC1304
IC1305
IC1306
IC1307
IC1308
IC1309
IC1310
IC1311
IC1312
IC1313
IC1314
IC1315
IC1316
IC1317
IC1318
IC1321
IC1322
FL1320
FL1321
FL1322
FL1324
FL1325
C1345
C1344
C1319
C1350
C1354
C1355
C1337
C1360
C1361
C1366
C1367
C1370
C1389
C1385
R1302
R1303
R1304
R1305
R1306
R1309
R1310
R1311
R1312
R1314
R1320
R1333
R1360
R1361
R1369
R1373
L1303
L1312
CN044
CN043

● : Conductor side pattern

● ▨: Component side pattern

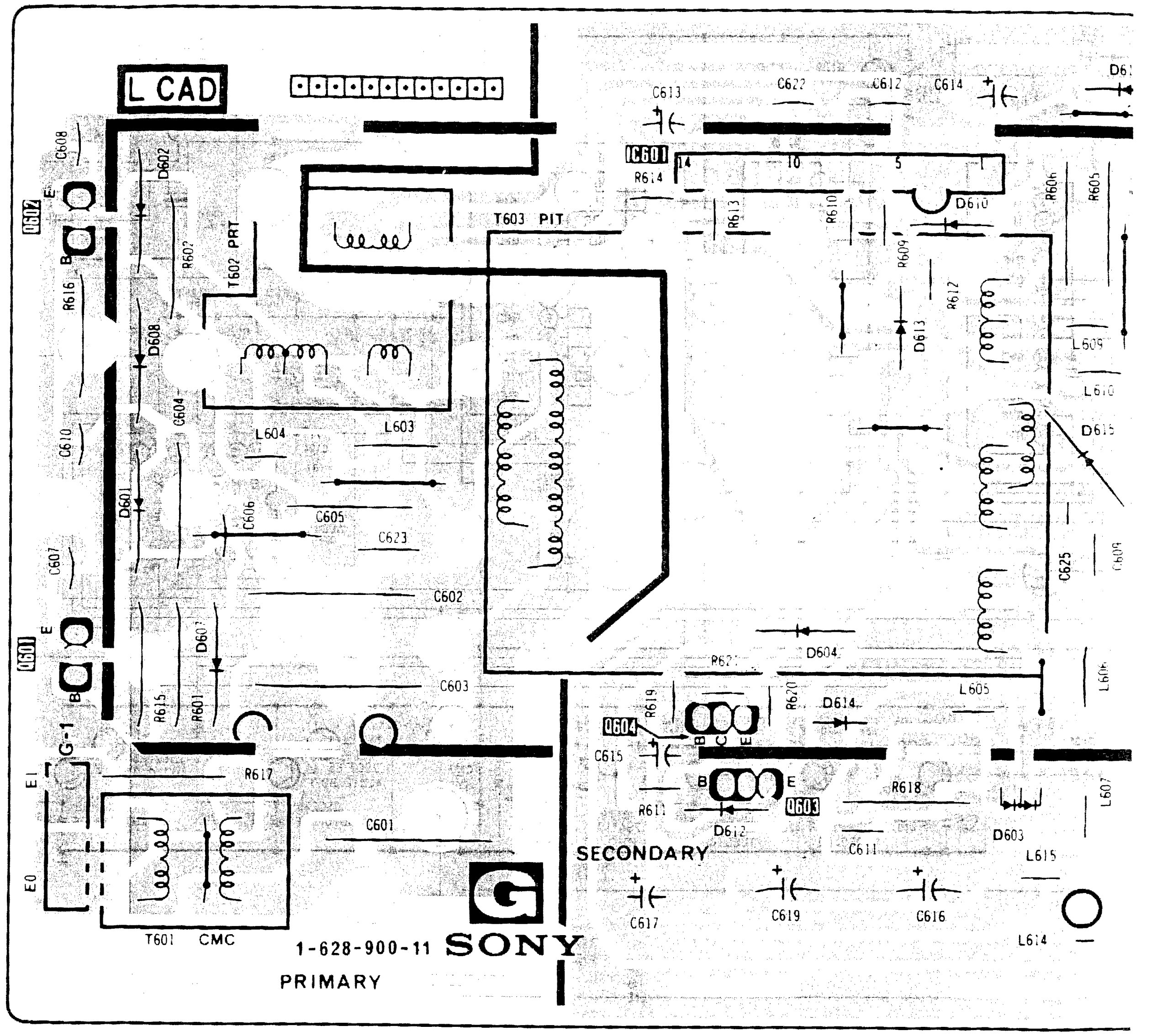

1
2
3
4
5
6
7
A
B
C
D
E
F
G-1
M3-H
EI 1
EO 2
EO 3
TO F2 BOARD
CNF-64
R617
0.33
1/2W
:RW
T601
CMC
C601
1.5
400V
:PP
C603
0.039
1.2kV
:PP
C602
0.039
1.2kV
:PP
C607
0.001
1kV
Q601
2SC4056
CON. OUT-1
253.0
134.1
134.5
R615
0.33
2W
:RS
R601
100k
2W
:RS
D601
S3V10SS
DAMPER-1
D607
RU-3AM
DAMPER-3
C606
0.001
1kV
C604
0.15
100V
:PP
C623
330p
2kV
L603
6.8μH
:LF-8L
L604
10μH
T602
PRT
T603
PIT
C605
0.15
100V
:PP
D608
RU-3AM
DAMPER-4
C610
0.001
1kV
R602
100k
2W
:RS
134.1
C608
0.001
1kV
D602
S3V10SS
DAMPER-2
R616
0.33
2W
:RS
-0.1
Q602
2SC4056
CON. OUT-2
R607
1.2
2W
:RS
R608
1.2
2W
:RS
D615
2GWJ42
PROTECT
R613
27
:FPRD
C615
1μ 50V
R614
100
:FPRD
R611
1k
D612
1S1555
PROTECT
G (POWER REG)

G (POWER REG)

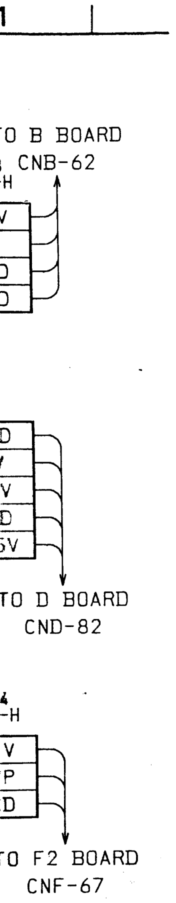

3
4
5
6
7
8
9
10
11
C607 0.001 1kV
L603 6.8μH :LF-8L
Q601 2SC4056 CON. OUT-1
253.0
134.1
134.5
L604 10μH
C602 0.039 1.2kV :PP
C603 0.039 1.2kV :PP
R615 0.33 2W :RS
C601 1.5 400V :PP
R601 100k 2W :RS
D601 S3V10SS DAMPER-1
T602 PRT
C606 0.001 1kV
D607 RU-3AM DAMPER-3
C604 0.15 100V :PP
C623 330p 2kV
C605 0.15 100V :PP
D608 RU-3AM DAMPER-4
C610 0.001 1kV
R602 100k 2W :RS
134.1
C608 0.001 1kV
D602 S3V10SS DAMPER-2
R616 0.33 2W :RS
-0.1
Q602 2SC4056 CON. OUT-2
T603 PIT
D603 D5KD20H 30V. RECT
L607 1.1μH
L606
L605 1.1μH
C619 0.001 25V
C616 0.022 25V
R618 0.1 1/2W :RW
L615 45μH
D616 U105G
C611 0.001 500V
TO B BOARD
G-3 CNB-62 S4W-H
1 38V
2 NC
3 GND
4 GND
G-2 M5
5 GND
4 7V
3 15V
2 GND
1 135V
TO D BOARD CND-82
L609 1.1μH
R605 0.1 1/2W :RW
R606 0.1 1/2W :RW
L610 1.1μH
C620 0.0047 10V SXE
L616 45μH
L617 45μH
C618 0.0027 25V SXE
D605 D10SC4MR 7V. RECT
D606 D10SC4MR 15V. RECT
D613 1S1555 PROTECT
R612 1.2 :FPRD
L618 45μH
L613 1.1μH
C624 0.001 6.3V
C609 0.0015 1kV
D609 D5KC40H 135V. RECT
D610 1S1555 PROTECT
C621 100 160V :ALR
D611 1S1555 PROTECT
G-4 S3W-H
1 12V
2 OVP
3 GND
TO F2 BOARD CNF-67
R609 100 :FPRD
R610 100 :FPRD
C613 47 16V
14.8
14.8
R621 100 :FPRD
137.5
R607 1.2 2W :RS
R608 1.2 2W :RS
D615 2GWJ42 PROTECT
R620 150 :FPRD
-0.3
R619 1.0k
C615 1μ 50V
Q604 2SC2785 CURRENT-LIM2
-0.4
R613 27 :FPRD
R614 100 :FPRD
R611 1k
D612 1S1555 PROTECT
Q603 2SC2785 CURRENT-LIM1
14.8
14.8
-0.3
C612 0.033 50V :PT
6.3
IC601 DM-38 CONTROL &OVP
137.5
1.5
16.2
C622 0.033 50V :PT
0.3
0
C614 220 6.3V

ER)

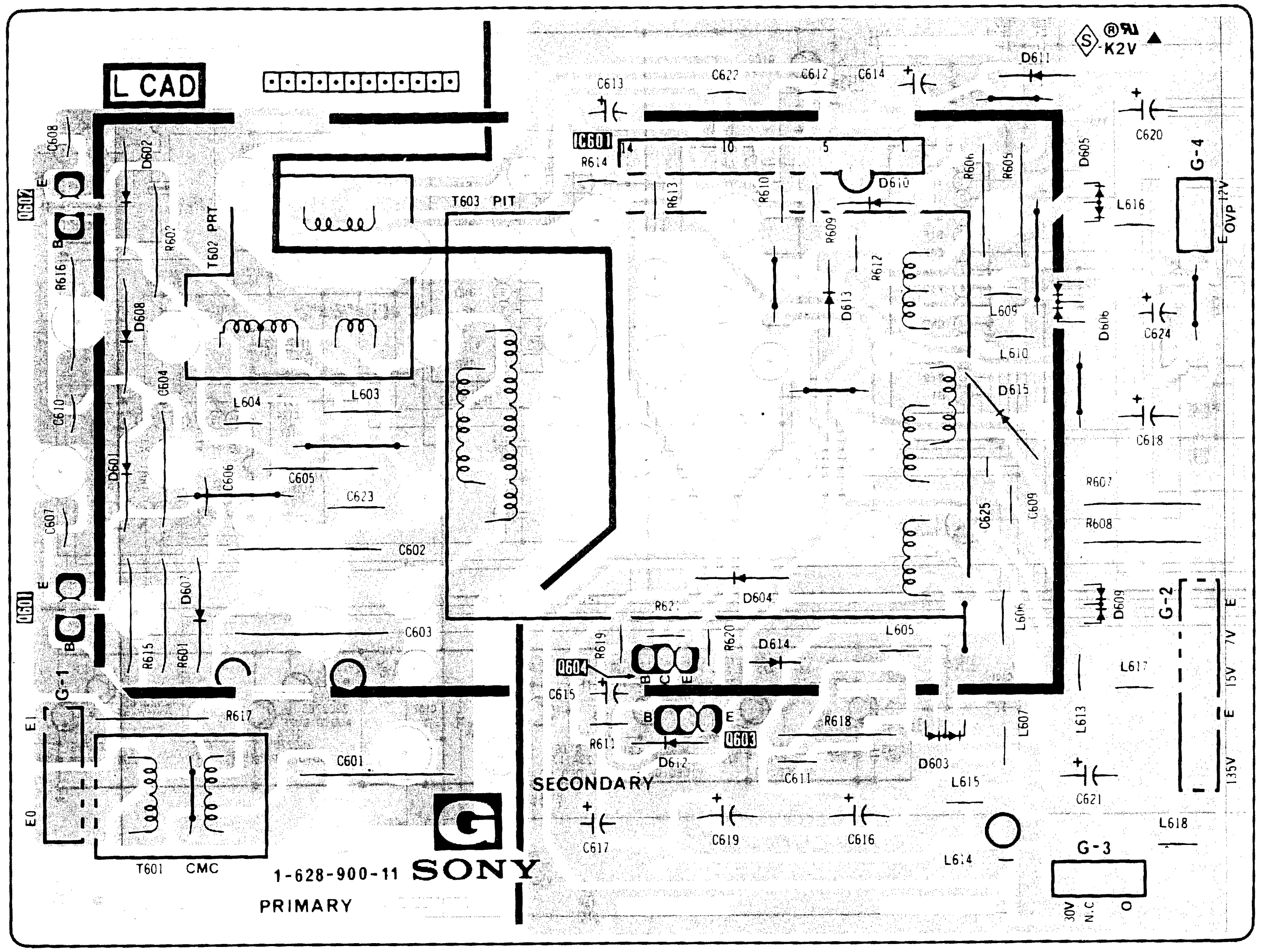
— G Board —

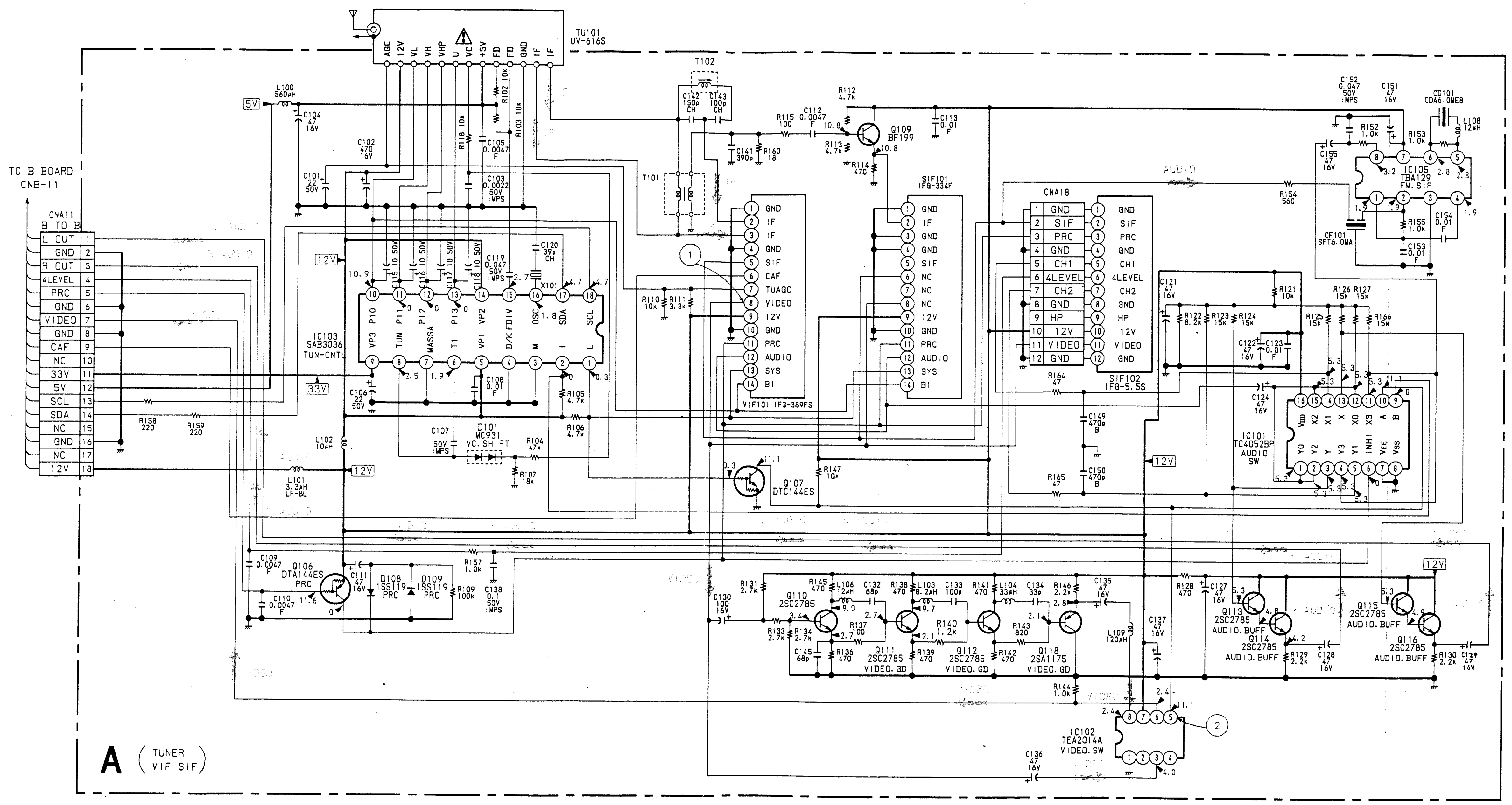

L CAD
C613
C622
C612
C614
IC601
R614
T603 PIT
D610
R613
R610
R609
R612
R606
R605
Q602
C608
D602
R602
T602 PRT
R616
D608
C604
L604
L603
C610
D601
C606
C605
C623
C607
D607
C602
R621
D604
Q601
R615
R601
C603
L605
Q604
R619
R620
D614
C615
G-1
R617
R611
Q603
R618
D612
C601
D603
SECONDARY
C611
L615
T601 CMC
1-628-900-11
SONY
PRIMARY
C617
C619
C616
L614
D613
L606
L607
C625
C609

G (POWER REG)

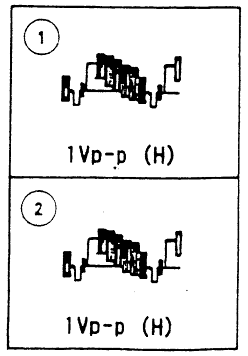

1
O B BOARD
CNB-62
H
V
D
D
D
V
V
D
5V
TO D BOARD
CND-82
H
V
P
D
O F2 BOARD
CNF-67

— G Board —

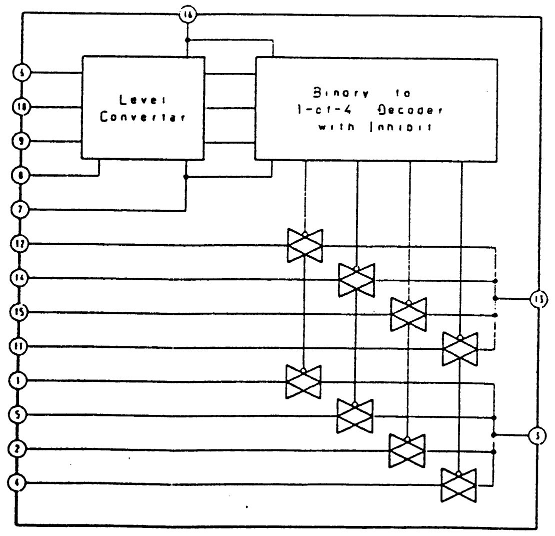

L CAD
K2V
D611
C613
C622
C612
C614
C620
IC601
R614
14
10
5
1
T603 PIT
R613
R610
D610
R606
R605
D605
L616
G-4
OVP
12V
E
Q608
Q602
E
B
R616
D602
R602
T602 PRT
R609
D613
R612
D608
L609
L610
D606
C624
D615
C610
D604
L604
L603
C618
C606
C605
C623
D601
C625
C609
R607
R608
C607
C602
D604
D609
G-2
E
7V
15V
E
135V
Q601
E
B
D603
R615
R601
C603
R621
R619
R620
D614
L605
L606
L617
G-1
R617
Q604
C615
B
C
E
R618
L607
L613
E1
R611
Q603
D612
C601
C611
D603
L615
C621
SECONDARY
C617
C619
C616
L618
E0
L614
G-3
30V
N.C
0
T601
CMC
1-628-900-11
SONY
PRIMARY


A (TUNER VIF SIF)
TU101 UV-616S
AGC 12V VL VH VHP U VC +5V FD FD GND IF IF
TO B BOARD CNB-11
CNA11 B TO B
L OUT, GND, R OUT, 4LEVEL, PRC, GND, VIDEO, GND, CAF, NC, 33V, 5V, SCL, SDA, NC, GND, NC, 12V
IC103 SAB3036 TUN-CNTL
P10 P11 P12 P13 VP2 FDIV OSC SDA SCL VP3 TUN MASSA T1 VP1 D/K
5V
12V
33V
L100 560μH
L101 3.3μH LF-8L
L102 10μH
D101 MC931 VC.SHIFT
X101
T101
T102
Q109 BF199
VIF101 IFG-389FS
GND IF IF GND SIF CAF TUAGC VIDEO 12V GND PRC AUDIO SYS B1
SIF101 IFG-334F
GND IF GND GND SIF NC NC NC 12V GND PRC AUDIO SYS B1
CNA18
GND SIF PRC GND CH1 4LEVEL CH2 GND HP 12V VIDEO GND
SIF102 IFG-5.5S
AUDIO
IC105 TBA129 FM. SIF
CF101 SFT6.0MA
CD101 CDA6.0ME8
L108 12μH
IC101 TC4052BP AUDIO SW
VDD X2 X1 X X0 X3 A B Y0 Y2 Y Y3 Y1 INH VEE VSS
Q107 DTC144ES
Q106 DTA144ES PRC
D108 1SS119 PRC
D109 1SS119 PRC
Q110 2SC2785
Q111 2SC2785 VIDEO. GD
Q112 2SC2785 VIDEO. GD
Q118 2SA1175 VIDEO. GD
L106 12μH
L103 8.2μH
L104 33μH
L109 120μH
Q113 2SC2785 AUDIO. BUFF
Q114 2SC2785 AUDIO. BUFF
Q115 2SC2785 AUDIO. BUFF
Q116 2SC2785 AUDIO. BUFF
IC102 TEA2014A VIDEO. SW
1
2

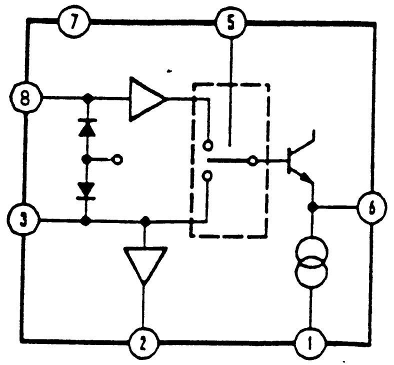
WAVEFORMS A BOA



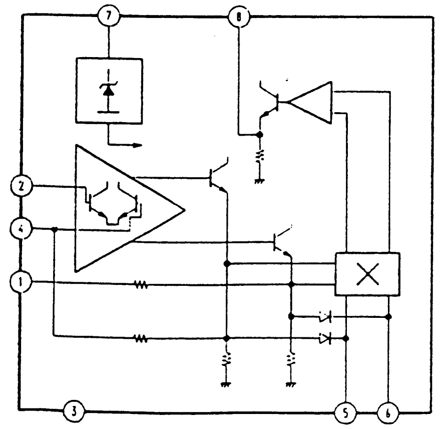
A BOARD IC101 TC4052BP

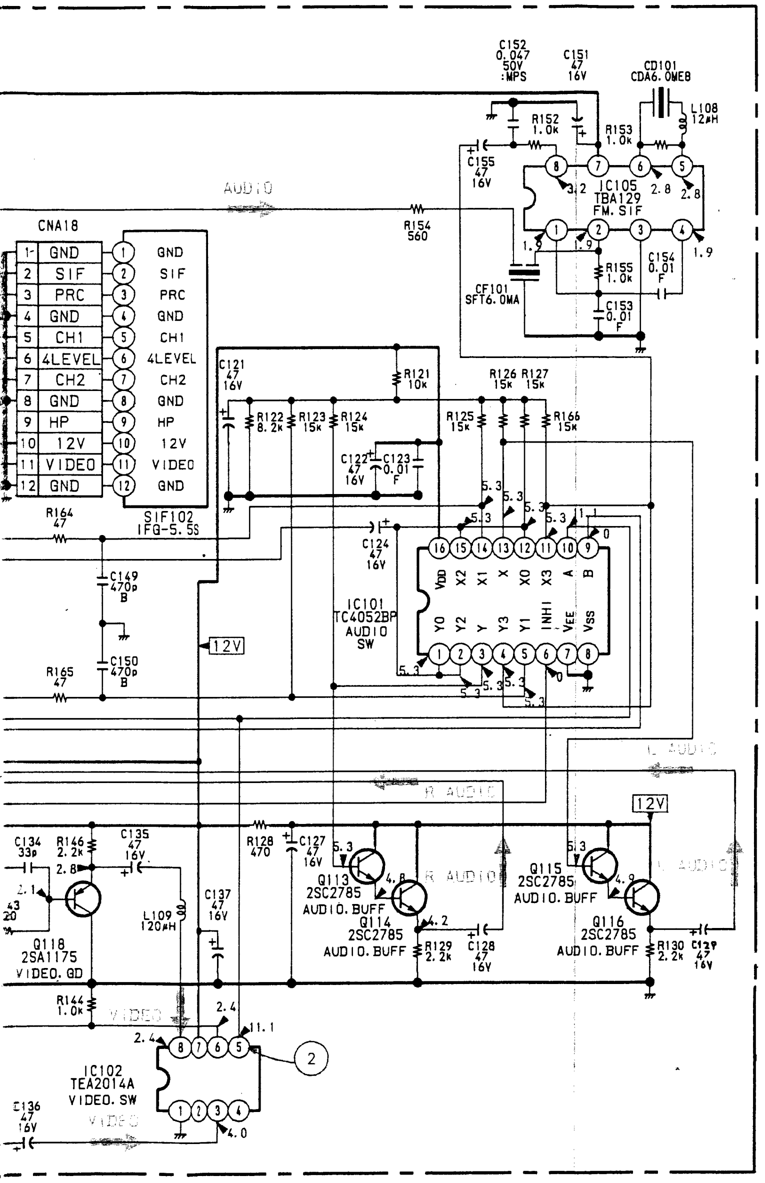

Level Converter
Binary to 1-of-4 Decoder with Inhibit
16
6
10
9
8
7
12
14
15
11
1
5
2
4
13
3

A BOARD IC102 TEA2014A

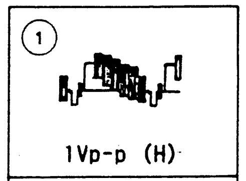


A BOARD IC105 TBA129

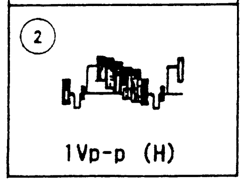



CNA18
GND
SIF
PRC
GND
CH1
4LEVEL
CH2
GND
HP
12V
VIDEO
GND
SIF102
IFG-5.5S
IC105
TBA129
FM. SIF
CF101
SFT6.0MA
CD101
CDA6.0MEB
L108
12μH
IC101
TC4052BP
AUDIO SW
12V
Q113
2SC2785
AUDIO. BUFF
Q114
2SC2785
AUDIO. BUFF
Q115
2SC2785
AUDIO. BUFF
Q116
2SC2785
AUDIO. BUFF
Q118
2SA1175
VIDEO. GD
IC102
TEA2014A
VIDEO. SW
L109
120μH
AUDIO
R AUDIO
L AUDIO
VIDEO
②

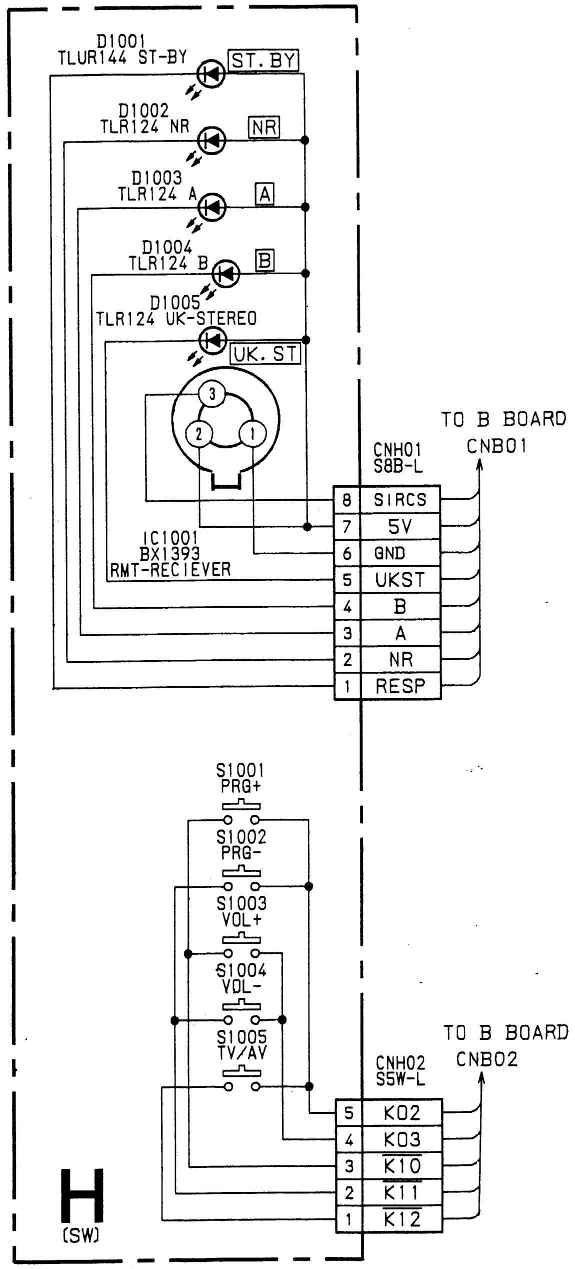
WAVEFORMS A BOARD

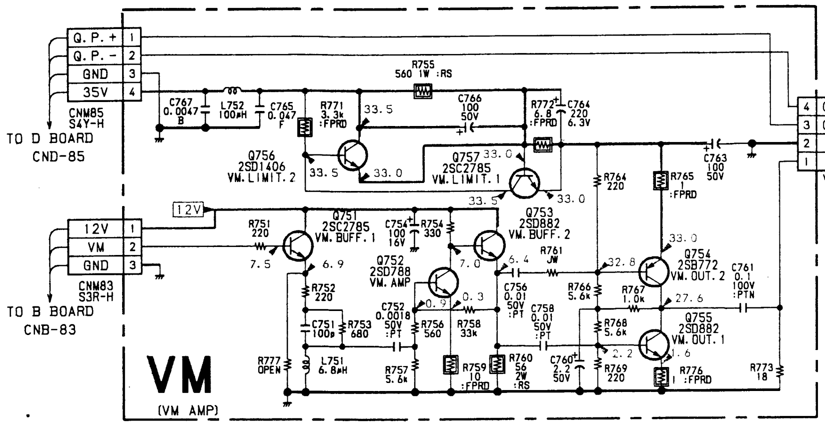


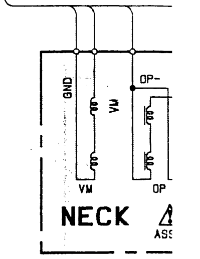
1Vp-p (H)

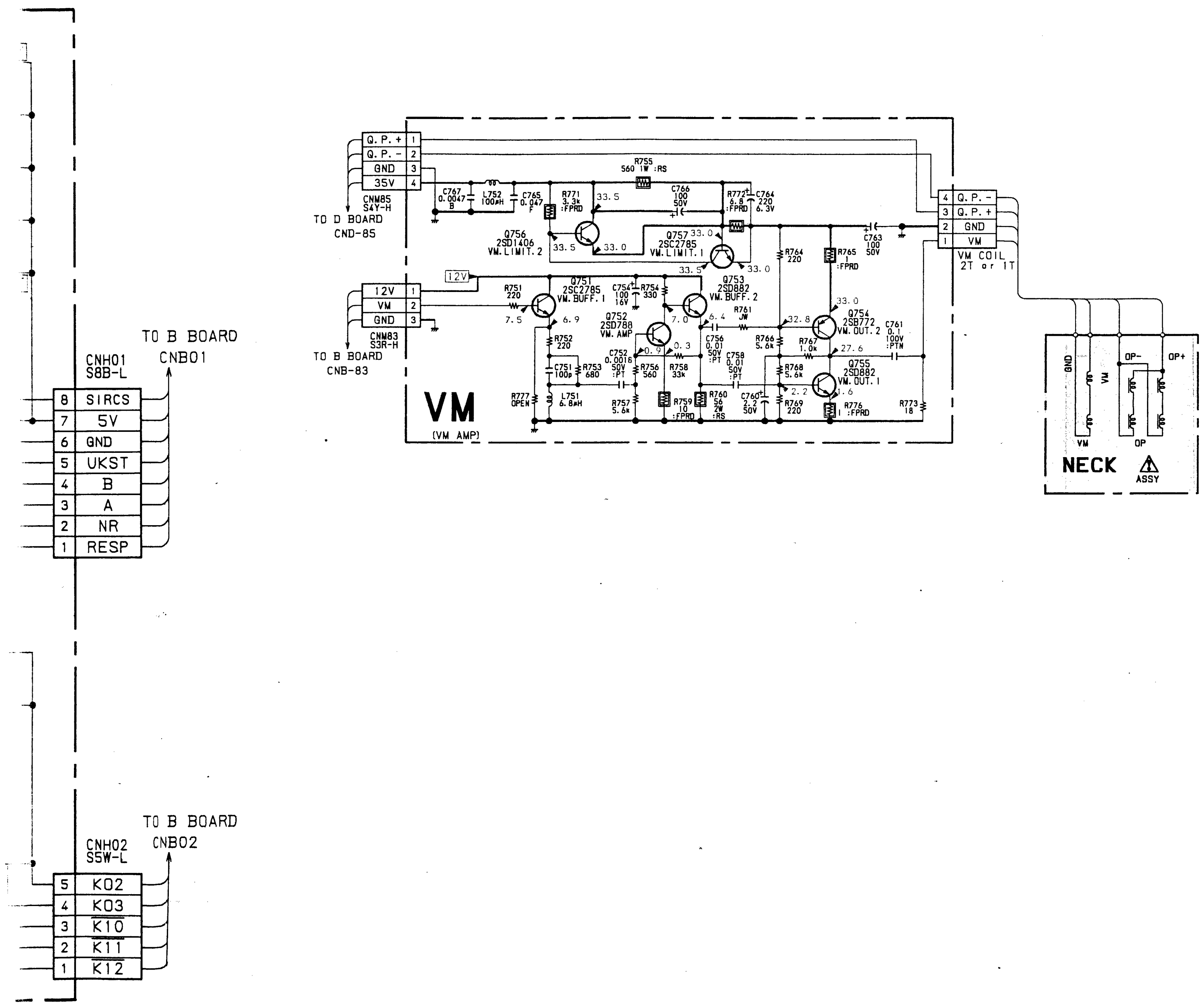


1Vp-p (H)


D1001
TLUR144 ST-BY
ST. BY
D1002
TLR124 NR
NR
D1003
TLR124 A
A
D1004
TLR124 B
B
D1005
TLR124 UK-STEREO
UK. ST
IC1001
BX1393
RMT-RECIEVER
CNH01
S8B-L
TO B BOARD
CNB01
8 SIRCS
7 5V
6 GND
5 UKST
4 B
3 A
2 NR
1 RESP
S1001
PRG+
S1002
PRG-
S1003
VOL+
S1004
VOL-
S1005
TV/AV
CNH02
S5W-L
TO B BOARD
CNB02
5 K02
4 K03
3 K10
2 K11
1 K12
H
(SW)

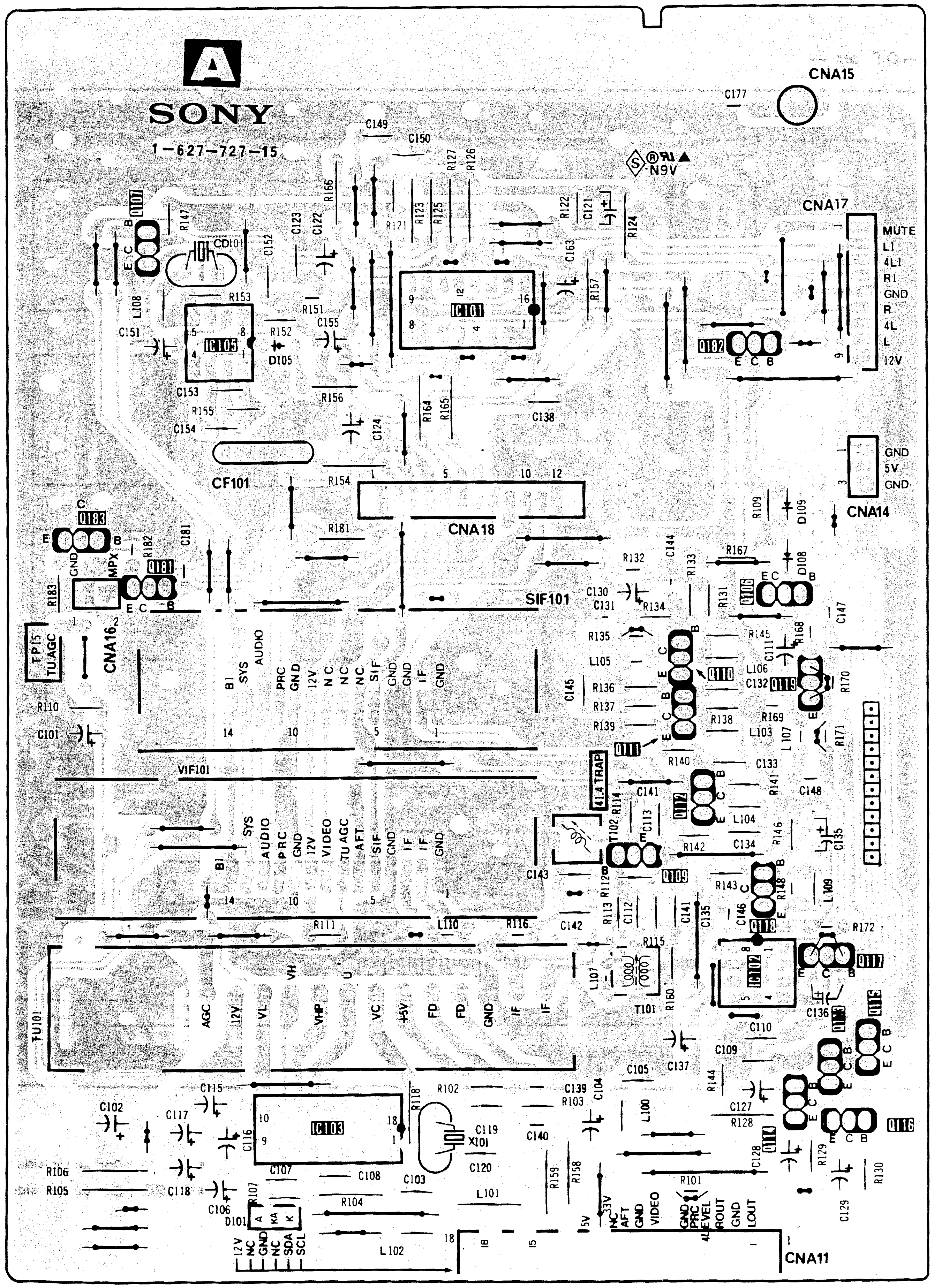

Q. P. +
Q. P. -
GND
35V
CNM85
S4Y-H
TO D BOARD
CND-85
12V
VM
GND
CNM83
S3R-H
TO B BOARD
CNB-83
Q751
2SC2785
VM. BUFF. 1
Q752
2SD788
VM. AMP
Q753
2SD882
VM. BUFF. 2
Q754
2SB772
VM. OUT. 2
Q755
2SD882
VM. OUT. 1
Q756
2SD1406
VM. LIMIT. 2
Q757
2SC2785
VM. LIMIT. 1
4 Q. P. -
3 Q. P. +
2 GND
1 VM
VM COIL
2T or 1T
VM
(VM AMP)


GND
VM
VM
OP-
NECK


VM
(VM AMP)
NECK ASSY
TO D BOARD CND-85
CNM85 S4Y-H
TO B BOARD CNB-83
CNM83 S3R-H
VM COIL 2T or 1T
TO B BOARD CNB01
CNH01 S8B-L
8 SIRCS
7 5V
6 GND
5 UKST
4 B
3 A
2 NR
1 RESP
TO B BOARD CNB02
CNH02 S5W-L
5 K02
4 K03
3 K10
2 K11
1 K12
Q.P.+
Q.P.-
GND
35V
12V
VM
GND
Q756 2SD1406 VM.LIMIT.2
Q757 2SC2785 VM.LIMIT.1
Q751 2SC2785 VM.BUFF.1
Q752 2SD780 VM.AMP
Q753 2SD882 VM.BUFF.2
Q754 2SB772 VM.OUT.2
Q755 2SD882 VM.OUT.1
OP-
OP+
OP

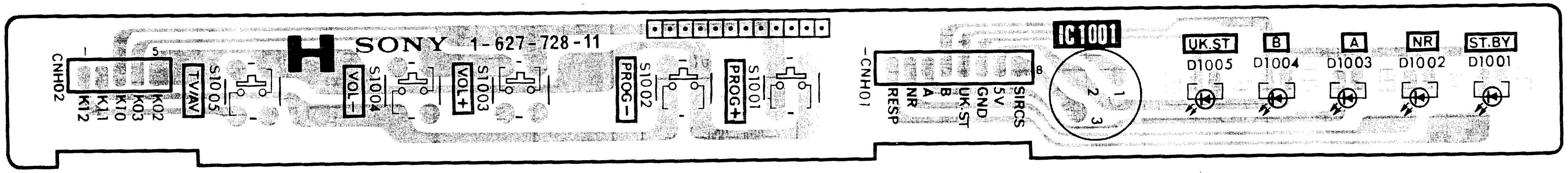
— A Board —

A (TUNER VIF, SIF)

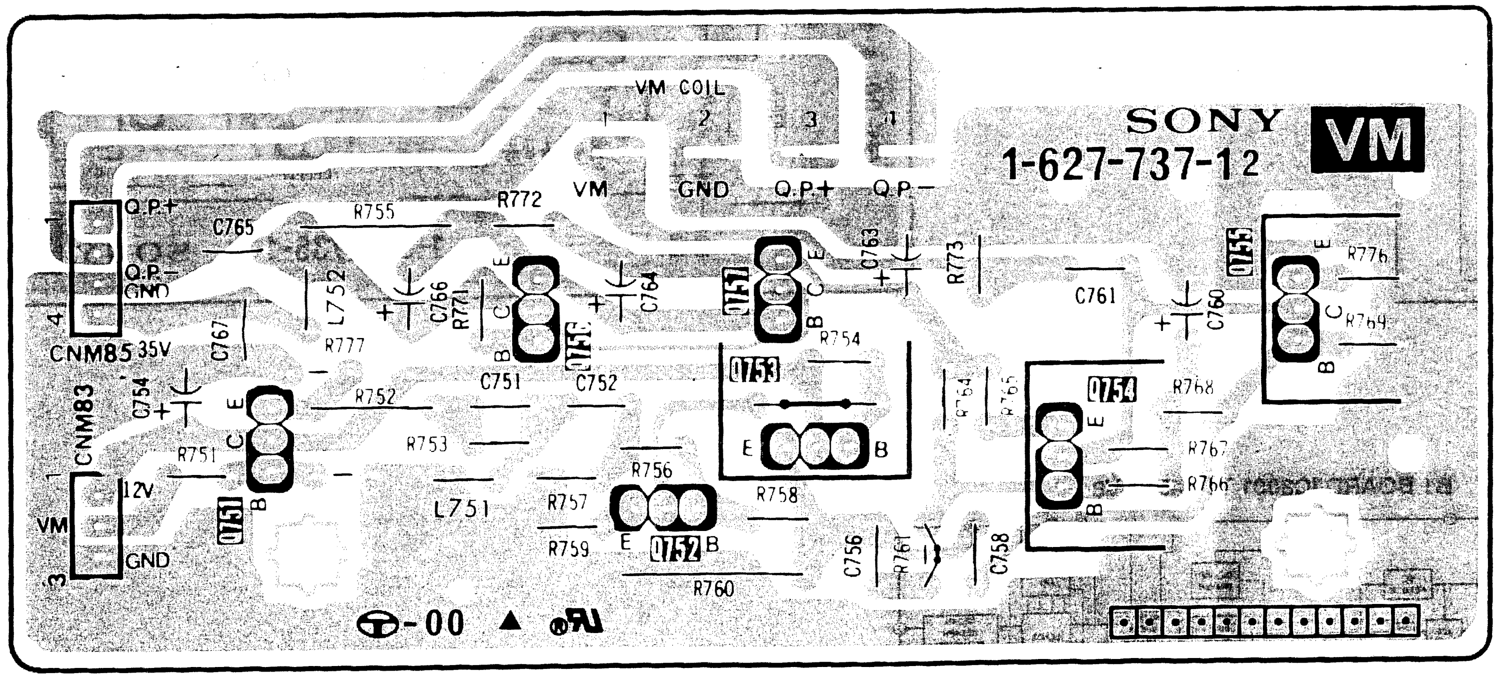

A
SONY
1-627-727-15
N9V
CNA15
CNA17
MUTE
LI
4LI
RI
GND
R
4L
L
12V
CNA14
GND
5V
GND
CNA18
SIF101
CF101
IC101
IC105
IC102
IC103
CD101
D105
VIF101
CNA16
TU AGC
4.4 TRAP
TU101
AGC
12V
VL
VH
VHP
U
VC
+5V
FD
GND
IF
X101
T101
T102
CNA11
D101
12V
NC
GND
NC
SDA
SCL
5V
NC
33V
AFT
GND
VIDEO
GND
PRC
4LEVEL
ROUT
GND
LOUT

H (SW) **VM** (VM AMP)

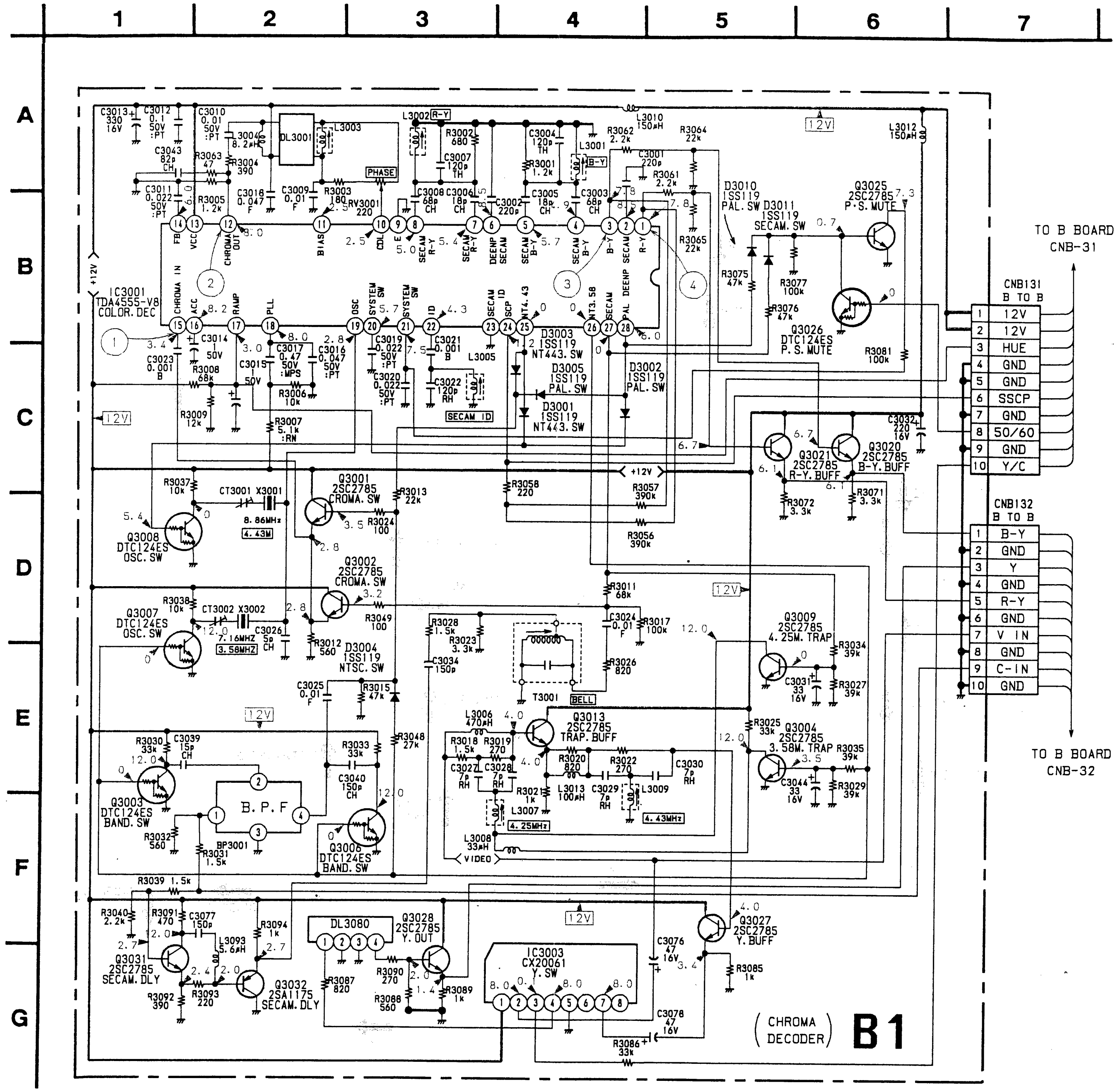
— H Board —

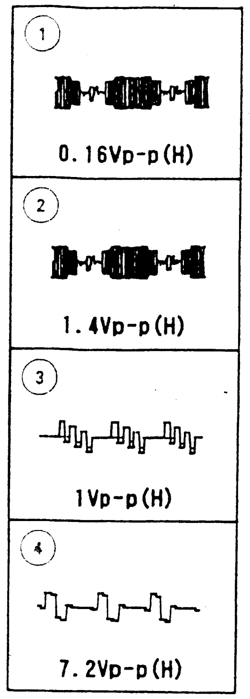

CNH02
1
5
K12
K11
K10
K03
K02
T.V/AV
S1005
H
SONY 1-627-728-11
VOL−
S1004
VOL+
S1003
S1002
PROG−
PROG+
S1001
CNH01
1
RESP
NR
A
B
UK.ST
GND
5V
SIRCS
8
IC1001
1
2
3
UK.ST
D1005
B
D1004
A
D1003
NR
D1002
ST.BY
D1001

— VM Board —

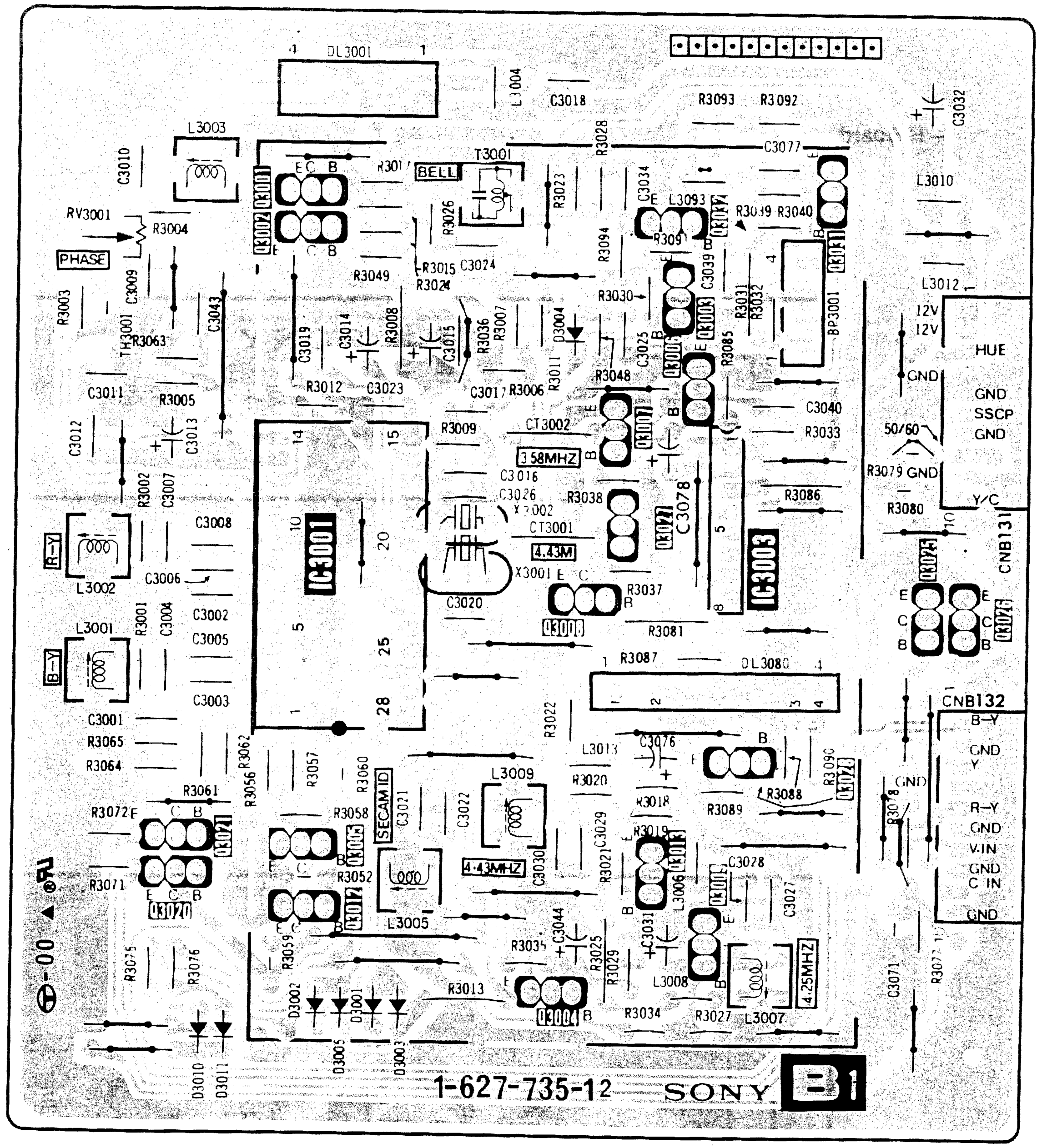

VM COIL
2
3
1
SONY
1-627-737-12
VM
VM
GND
Q.P+
Q.P−
Q.P+
Q.P−
GND
1
4
CNM85
35V
CNM83
1
12V
VM
GND
3
C765
R755
R772
L752
C766
R771
C764
Q751
Q752
Q753
Q754
Q755
Q756
Q757
C763
R773
C761
C760
R776
R769
R754
R777
C767
C751
C752
C754
R752
R751
R753
L751
R756
R757
R758
R759
R760
R764
R765
R768
R767
R766
C756
R761
C758
E
C
B
-00

B1 (CHROMA DECODER)

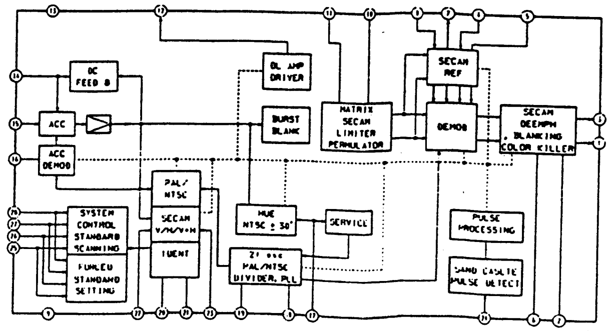

1
2
3
4
5
6
7
A
B
C
D
E
F
G
IC3001
TDA4555-V8
COLOR. DEC
TO B BOARD
CNB-31
CNB131
B TO B
12V
12V
HUE
GND
GND
SSCP
GND
50/60
GND
Y/C
CNB132
B TO B
B-Y
GND
Y
GND
R-Y
GND
V IN
GND
C-IN
GND
TO B BOARD
CNB-32
Q3001
2SC2785
CROMA. SW
Q3002
2SC2785
CROMA. SW
Q3008
DTC124ES
OSC. SW
Q3007
DTC124ES
OSC. SW
Q3003
DTC124ES
BAND. SW
Q3006
DTC124ES
BAND. SW
B.P.F
Q3021
2SC2785
R-Y. BUFF
Q3020
2SC2785
B-Y. BUFF
Q3025
2SC2785
P-S. MUTE
Q3026
DTC124ES
P.S. MUTE
Q3009
2SC2785
4.25M. TRAP
Q3004
2SC2785
3.58M. TRAP
Q3013
2SC2785
TRAP. BUFF
Q3031
2SC2785
SECAM. DLY
Q3032
2SA1175
SECAM. DLY
Q3028
2SC2785
Y. OUT
Q3027
2SC2785
Y. BUFF
IC3003
CX20061
Y. SW
DL3080
DL3001
T3001
BELL
PHASE
SECAM ID
D3004
1SS119
NTSC. SW
D3010
1SS119
PAL. SW
D3011
1SS119
SECAM. SW
12V
+12V
(CHROMA DECODER)
B1

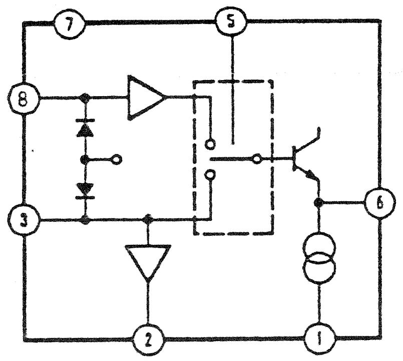


— B1 Board —

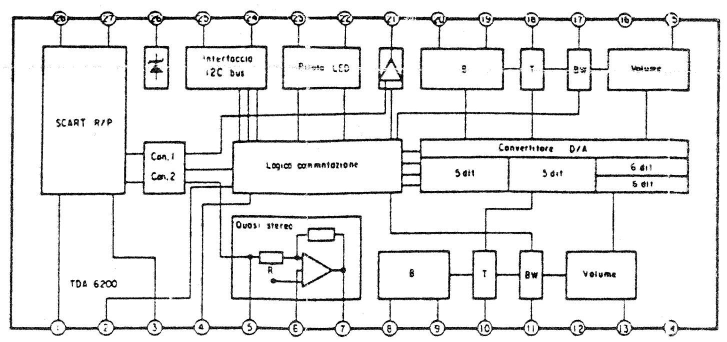

DL3001
IC3001
IC3003
DL3080
PHASE
BELL
SECAM ID
3.58MHZ
4.43M
4.43MHZ
4.25MHZ
RV3001
HUE
GND
SSCP
GND
Y/C
CNB131
CNB132
B-Y
GND
Y
R-Y
GND
V-IN
GND
C IN
GND
1-627-735-12
SONY
B1

B1 BOARD IC3001 TDA4555-V8


IC FEED B
ACC
ACC DEMOD
CL AMP DRIVER
BURST BLANK
MATRIX SECAM LIMITER PERMULATOR
SECAM REF
DEMOD
SECAM DEEMPH BLANKING COLOR KILLER
PAL/NTSC
SYSTEM CONTROL STANDARD SCANNING
FORCED STANDARD SETTING
SECAM Y/M/Y/M
IDENT
HUE NTSC ± 30°
SERVICE
2f osc PAL/NTSC DIVIDER, PLL
PULSE PROCESSING
SAND CASTLE PULSE DETECT

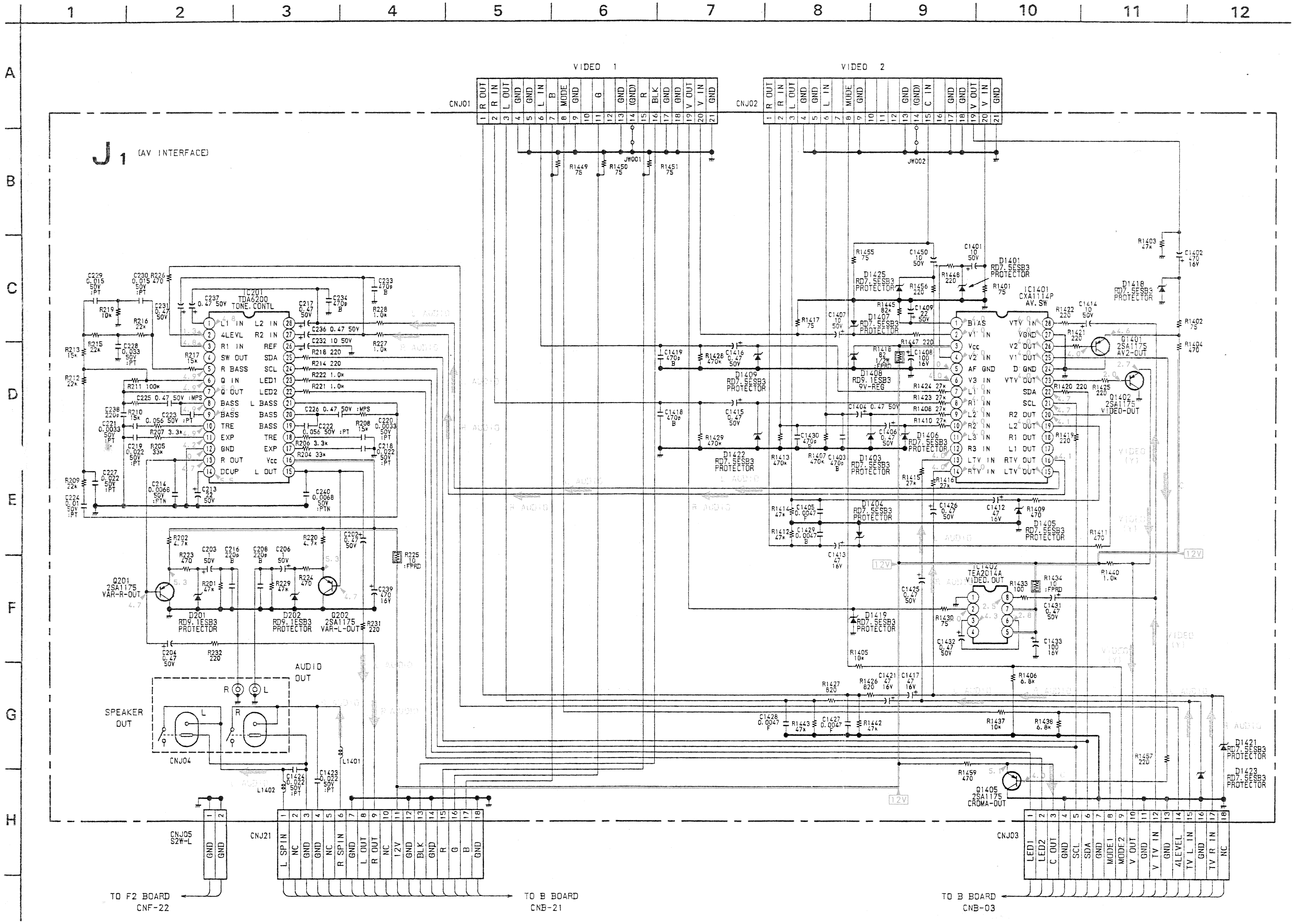


J1 BOARD IC 201 TDA6200



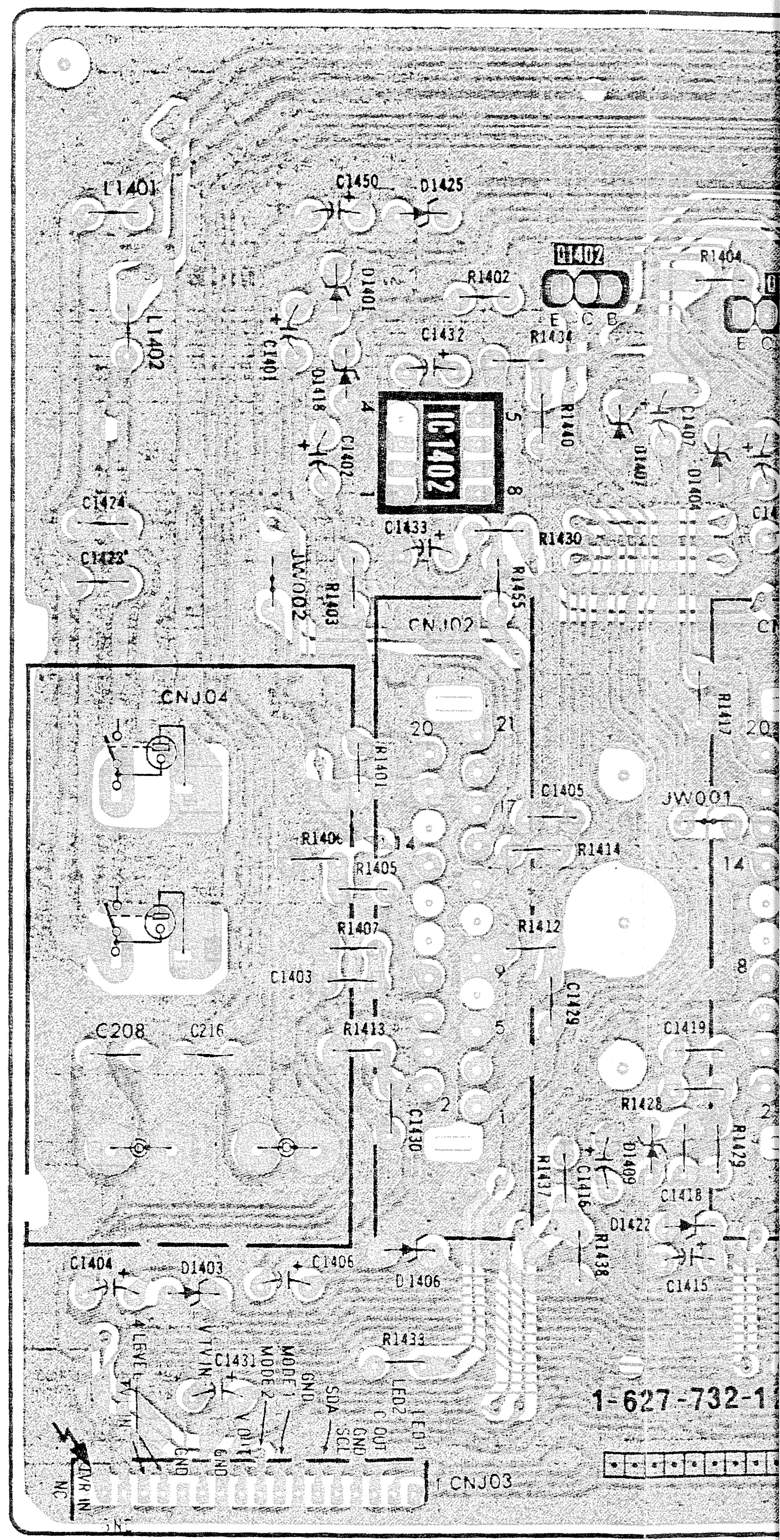
SCART R/P
Interfaccia I2C bus
Pilota LED
Volume
Com. 1
Com. 2
Logica commutazione
Convertitore D/A
5 bit
6 bit
Quasi stereo
TDA 6200

J1 (AV INTERFACE)



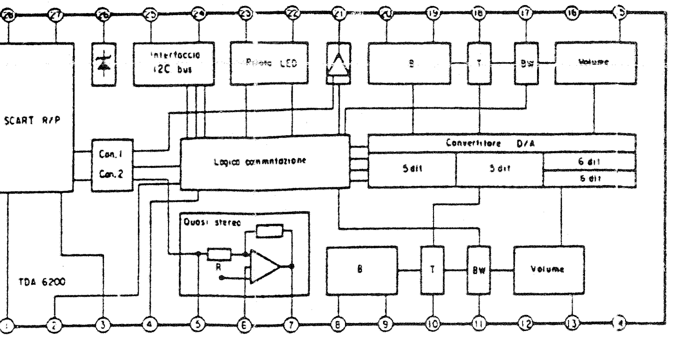
1
2
3
4
5
6
7
8
9
10
11
12
A
B
C
D
E
F
G
H
J1 (AV INTERFACE)
VIDEO 1
VIDEO 2
CNJ01
CNJ02
R OUT
R IN
L OUT
GND
L IN
B
MODE
G
(GND)
R
BLK
V OUT
V IN
C IN
JW001
JW002
R1449 75
R1450 75
R1451 75
IC201 TDA6200 TONE. CONTL
IC1401 CXA1114P AV. SW
IC1402 TEA2014A VIDEO. OUT
Q201 2SA1175 VAR-R-OUT
Q202 2SA1175 VAR-L-OUT
Q1401 2SA1175 AV2-OUT
Q1402 2SA1175 VIDEO-OUT
Q1405 2SA1175 CROMA-OUT
D201 RD9.1ESB3 PROTECTOR
D202 RD9.1ESB3 PROTECTOR
D1408 RD9.1ESB3 9V-REG
D1401 RD7.5ESB3 PROTECTOR
D1418 RD7.5ESB3 PROTECTOR
D1425 RD7.5ESB3 PROTECTOR
D1419 RD7.5ESB3 PROTECTOR
D1421 RD7.5ESB3 PROTECTOR
D1423 RD7.5ESB3 PROTECTOR
AUDIO OUT
SPEAKER OUT
CNJ04
CNJ05 S2W-L
CNJ21
CNJ03
L SPIN
NC
R SPIN
L OUT
R OUT
12V
LED1
LED2
C OUT
SCL
SDA
MODE1
MODE2
V TV IN
4LEVEL
TV L IN
TV R IN
12V
TO F2 BOARD CNF-22
TO B BOARD CNB-21
TO B BOARD CNB-03

— J1 Board —



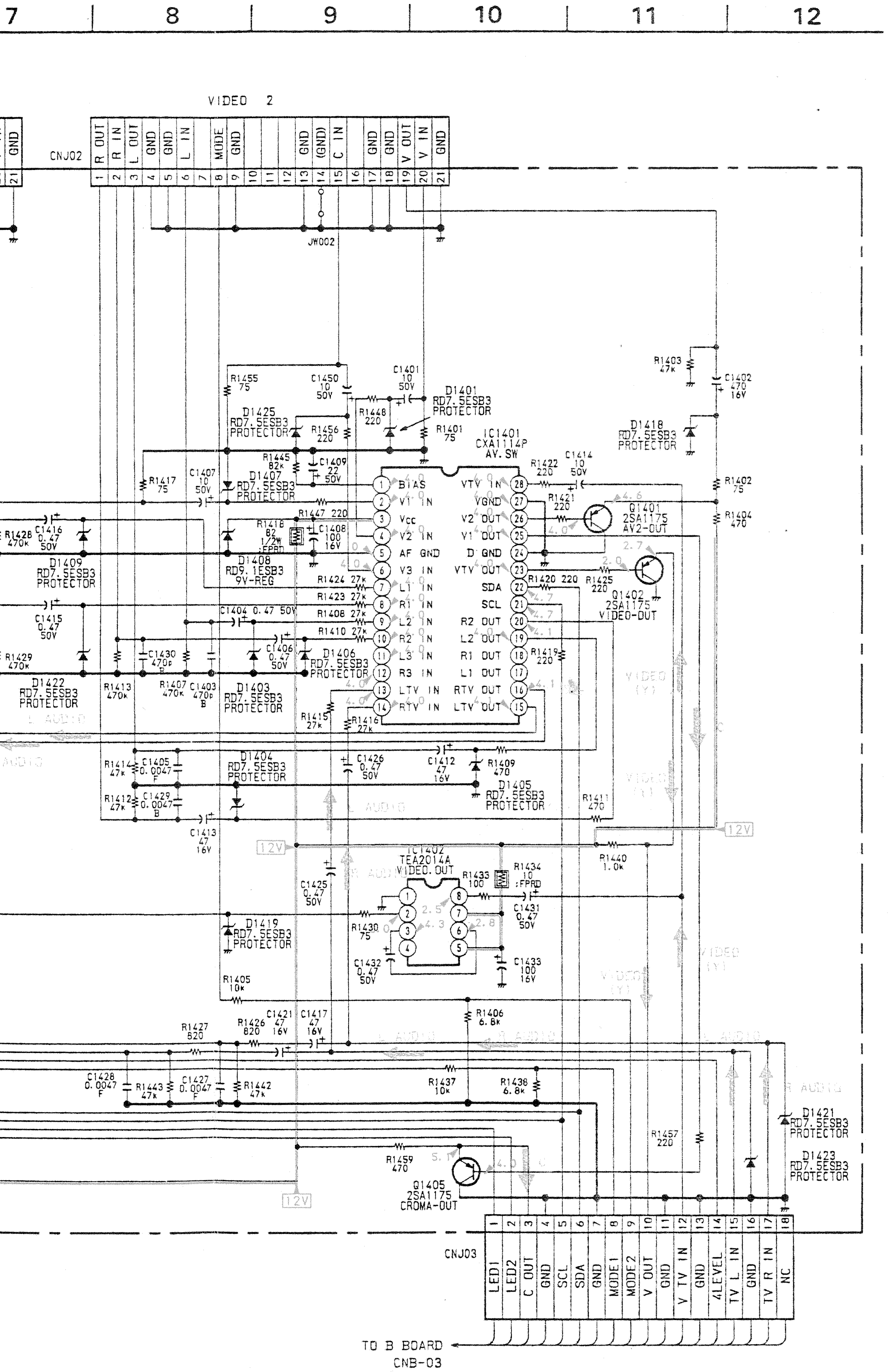
L1401
C1450
D1425
D1402
R1404
R1402
L1402
C1401
D1401
D1418
C1432
IC1402
C1402
R1440
C1424
C1423
C1433
R1430
JW002
R1403
R1455
CNJ02
CNJ04
R1401
R1406
R1405
C1405
JW001
R1414
R1407
R1412
C1403
C208
C216
R1413
C1430
C1429
C1419
R1428
C1404
D1403
C1406
D1406
C1431
R1433
C1415
1-627-732-1
CNJ03

BOARD IC 201 TDA6200



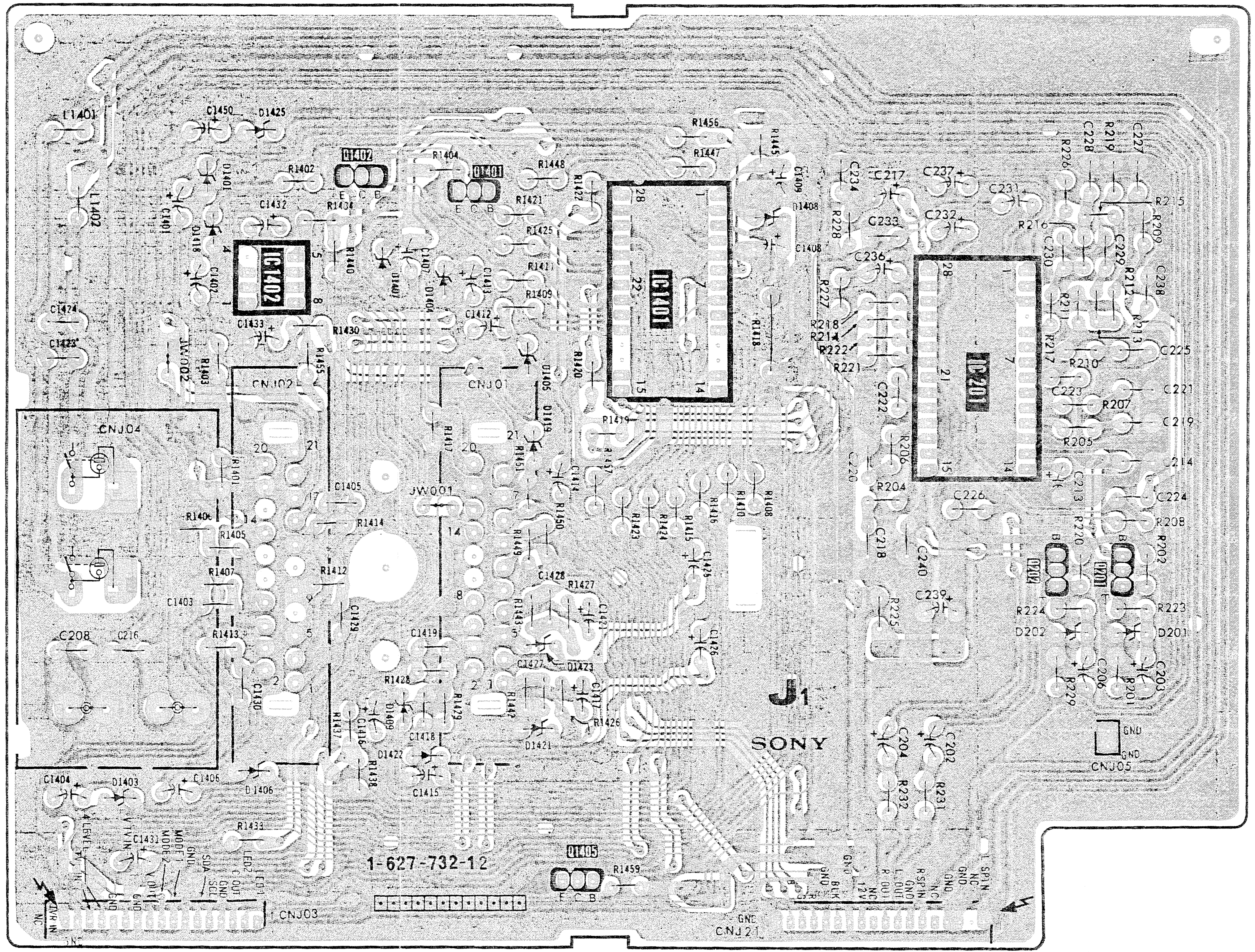
SCART R/P
Interfaccia I2C bus
Pilotag. LED
Con. 1
Con. 2
Logica commutazione
Convertitore D/A
5 bit
6 bit
Quasi stereo
B
T
BW
Volume
TDA 6200

J1 (AV INTERFACE)



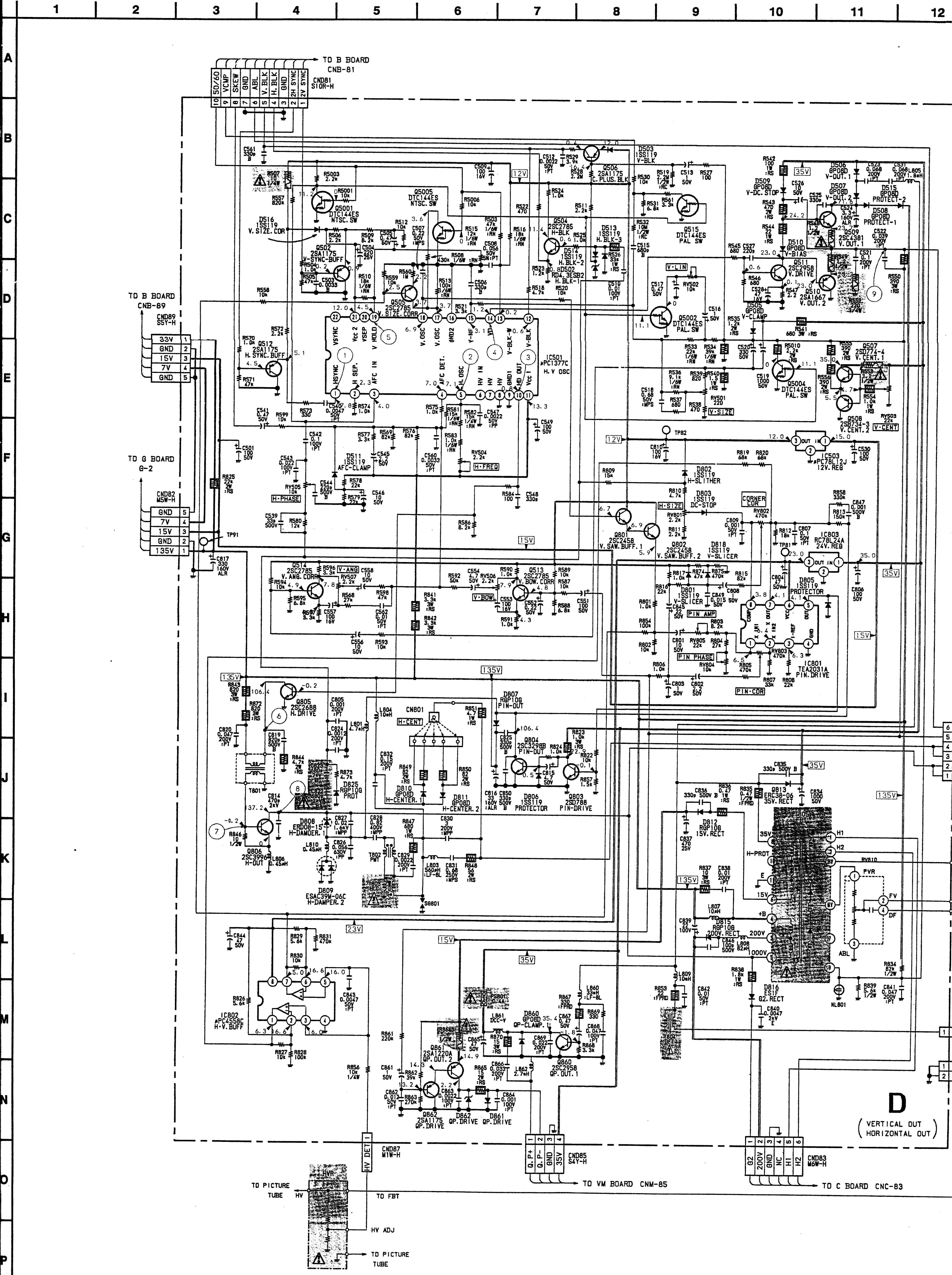
7
8
9
10
11
12
VIDEO 2
CNJ02
R OUT
R IN
L OUT
GND
GND
L IN
MODE
GND
GND
(GND)
C IN
GND
GND
V OUT
V IN
GND
JW002
IC1401
CXA1114P
AV. SW
Q1401
2SA1175
AV2-OUT
Q1402
2SA1175
VIDEO-OUT
IC1402
TEA2014A
VIDEO. OUT
Q1405
2SA1175
CROMA-OUT
RD7.5ESB3
PROTECTOR
D1408
RD9.1ESB3
9V-REG
12V
CNJ03
LED1
LED2
C OUT
GND
SCL
SDA
GND
MODE1
MODE2
V OUT
GND
V TV IN
GND
4LEVEL
TV L IN
TV R IN
NC
TO B BOARD
CNB-03

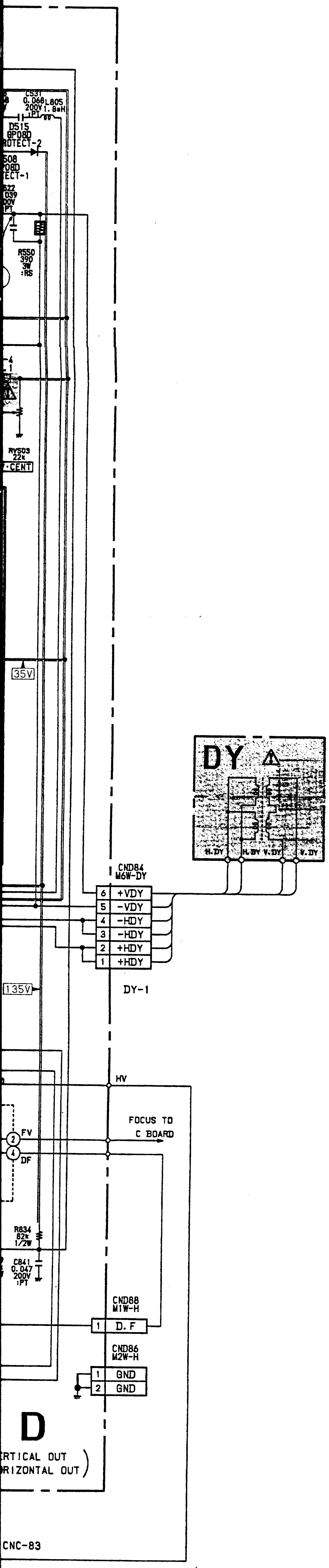
— J1 Board —

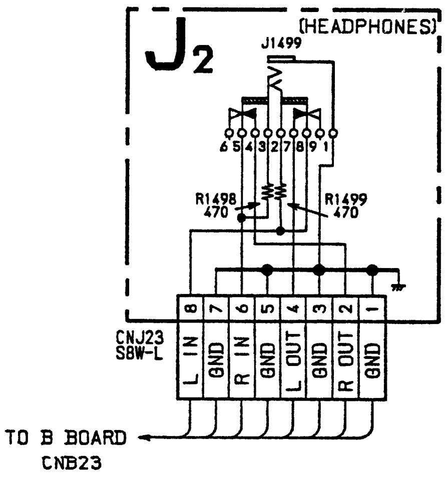


IC1401
IC1402
IC201
Q1401
Q1402
Q1405
CNJ01
CNJ02
CNJ03
CNJ04
CNJ05
CNJ21
JW001
JW002
J1
SONY
1-627-732-12
GND

- ●: Conductor side pattern
- ●: Component side pattern

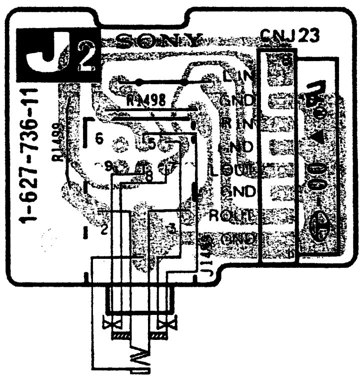

TO B BOARD
CNB-81
CND81
S10R-H
50/60
VCMP
SKEW
GND
ABL
V.BLK
H.BLK
GND
2H SYNC
2V SYNC
TO B BOARD
CNB-89
CND89
S5Y-H
33V
GND
15V
7V
GND
TO G BOARD
G-2
CND82
M5W-H
135V
TP91
IC501
μPC1377C
H. V OSC
HSYNC
H SEP.
AFC IN
VSYNC
Vcc 2
VSEP
V HOLD
AFC DET.
H. OSC
HV IN
V. OSC
GND2
V-NF
V-BLK-W
V-BLK
HD OUT
Vcc 1
Q5001
DTC144ES
NTSC. SW
Q5005
DTC144ES
NTSC. SW
Q502
2SA1175
V-SYNC-BUFF
Q505
2SC2785
V. SIZE. CORR
D516
1SS119
V. SIZE. COR
Q512
2SA1175
H. SYNC. BUFF
Q506
2SA1175
C. PLUS. BLK
D503
1SS119
V-BLK
Q504
2SC2785
H-BLK
D514
1SS119
H. BLK-2
D513
1SS119
H. BLK-3
D502
RD4. 3ESB2
H. BLK-1
Q515
DTC144ES
PAL SW
V-LIN
Q5002
DTC144ES
PAL. SW
Q5004
DTC144ES
PAL. SW
V-SIZE
D509
GP08D
V-DC. STOP
D506
GP08D
V-OUT. 1
D507
GP08D
V-OUT. 2
D515
GP08D
PROTECT-2
D508
GP08D
PROTECT-1
Q509
2SC4381
V. OUT. 1
D510
GP08D
V-BIAS
Q511
2SC2958
V. DRIVE
Q510
2SA1667
V. OUT. 2
D505
GP08D
V-CLAMP
Q507
2SD774-4
V. CENT. 1
Q508
2SB734-3
V. CENT. 2
V-CENT
35V
12V
15V
IC503
μPC78L12J
12V. REG
TP82
D511
1SS119
AFC-CLAMP
H-PHASE
H-FREQ
D802
1SS119
H-SLITHER
D803
1SS119
DC-STOP
H-SIZE
CORNER
COR
Q801
2SC2458
V. SAW. BUFF. 1
Q802
2SC2458
V. SAW. BUFF. 2
D818
1SS119
V-SLICER
IC803
RC78L24A
24V. REG
TP81
D805
1SS119
PROTECTOR
Q514
2SC2785
V. ANG. CORR
V-ANG
V-BOW
Q513
2SC2785
V. BOW. CORR
D801
1SS119
V-SLICER
PIN AMP
PIN PHASE
PIN·COR
IC801
TEA2031A
PIN. DRIVE
135V
Q805
2SC2688
H. DRIVE
T801
CN801
H·CENT
D807
RGP10G
PIN-OUT
Q804
2SC3298B
PIN-OUT
Q803
2SD788
PIN-DRIVE
D806
1SS119
PROTECTOR
D810
GP08D
H-CENTER. 1
D811
GP08D
H-CENTER. 2
D825
RGP10G
PROT
D808
ERD08-15
H-DAMPER. 1
Q806
2SC3996
H-OUT
D809
ESAC39M-06C
H-DAMPER. 2
T802
PWT
T803
HLT
S8801
D813
ERC38-06
35V. RECT
D812
RGP10G
15V. RECT
T805
FBT
H-PROT
H1
H2
RV810
FVR
FV
DF
ABL
D815
RGP10G
200V. RECT
D816
ES1F
G2. RECT
NL801
IC802
μPC4558C
H·V. BUFF
23V
Q861
2SA1220A
QP. OUT. 2
Q862
2SA1175
QP. DRIVE
D862
QP. DRIVE
D861
QP. DRIVE
D860
GP08D
QP-CLAMP. 1
Q860
2SC2958
QP. OUT. 1
PS801
CND87
M1W-H
HV DET
CND85
S4Y-H
Q. P+
Q. P-
GND
35V
TO VM BOARD CNM-85
CND83
M6W-H
G2
200V
GND
NC
H1
H2
TO C BOARD CNC-83
TO PICTURE TUBE
HV
TO FBT
HVR
HV ADJ
TO PICTURE TUBE
D
VERTICAL OUT
HORIZONTAL OUT


C531
0.068
200V
:PT
L805
1.8mH
D515
GP08D
PROTECT-2
508
P08D
TECT-1
622
039
00V
PT
R550
390
3W
:RS
RV503
22k
·CENT
35V
DY
H.DY
H.DY
V.DY
V.DY
CND84
M6W-DY
6 +VDY
5 -VDY
4 -HDY
3 -HDY
2 +HDY
1 +HDY
DY-1
135V
HV
FOCUS TO
C BOARD
2 FV
4 DF
R834
82k
1/2W
C841
0.047
200V
:PT
CND88
M1W-H
1 D.F
CND86
M2W-H
1 GND
2 GND
D
RTICAL OUT
RIZONTAL OUT
CNC-83

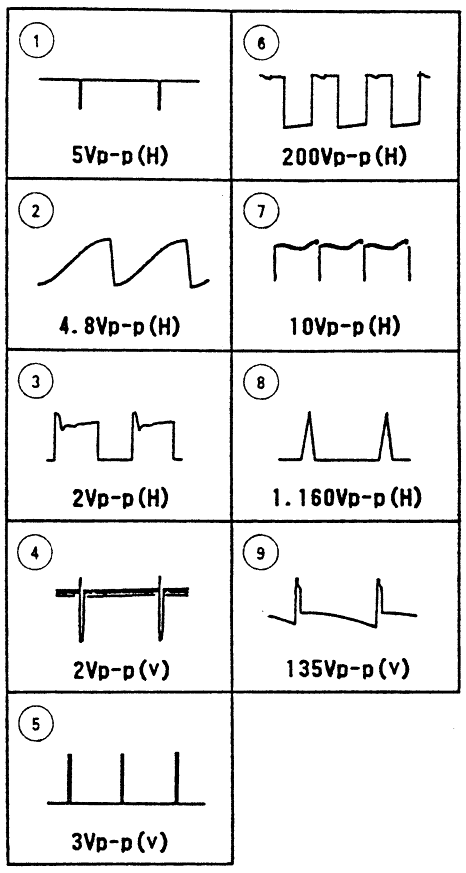

J2
(HEADPHONES)
J1499
6 5 4 3 2 7 8 9 1
R1498
470
R1499
470
CNJ23
S8W-L
8 L IN
7 GND
6 R IN
5 GND
4 L OUT
3 GND
2 R OUT
1 GND
TO B BOARD
CNB23

J2 (HEADPHONES)

— J2 Board —

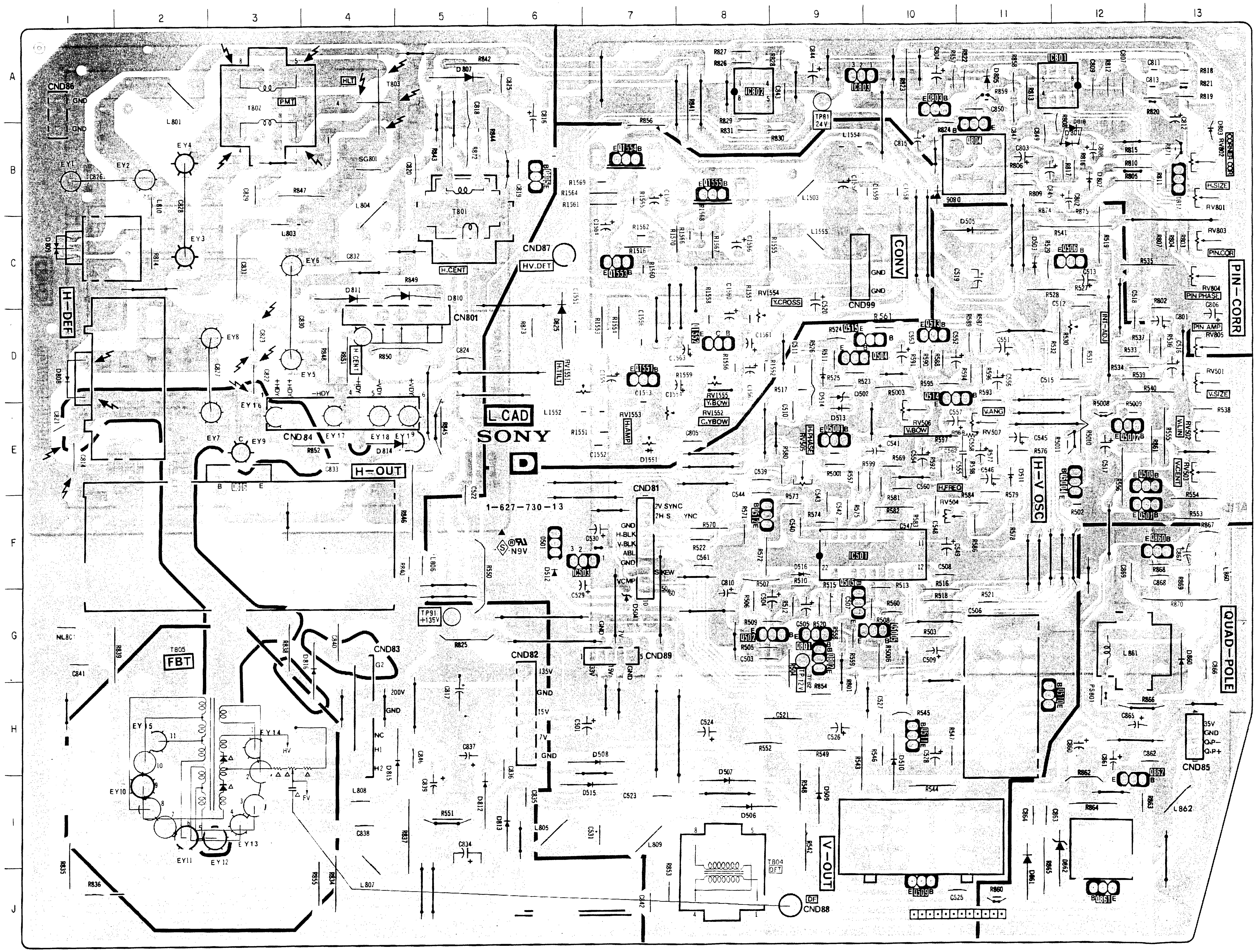

J2
SONY
CNJ23
1-627-736-11
R1498
R1499
J1499
L IN
GND
R IN
GND
L OUT
GND
R OUT
GND
6
2

WAVEFORMS D BOARD



D (VERTICAL OUT HORIZONTAL OUT)

— D Board —

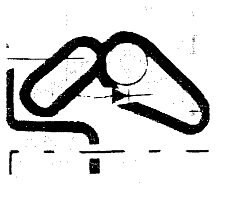

1
2
3
4
5
6
7
8
9
10
11
12
13
A
B
C
D
E
F
G
H
I
J
CND86
H-DEF
EY1
EY2
EY3
EY4
EY5
EY6
EY7
EY8
EY9
EY16
EY17
EY18
EY19
T802
PMT
HLT
T803
SG801
T801
H.CENT
CND87
HV.DET
CN801
D810
D811
CND84
H-OUT
L CAD
SONY
D
1-627-730-13
CND81
V SYNC
H SYNC
GND
H-BLK
V-BLK
ABL
SKEW
VCMP
TP91 +135V
CND82
CND83
FBT
T805
EY10
EY11
EY12
EY13
EY14
EY15
HV
FV
135V
GND
15V
7V
200V
NC
H1
H2
G2
CND89
IC501
IC503
IC801
IC802
IC803
TP81 24V
CONV
Y.CROSS
CND99
Y.BOW
C.YBOW
H.AMP
H.TILT
RV1551
RV1552
RV1553
RV1554
RV1555
H-V OSC
H.FREQ
V.ANG
V.BOW
H.PHASE
PIN-CORR
PIN.COR
PIN.PHASE
PIN.AMP
H.SIZE
V.SIZE
V.LIN
V.CENT
CORNER.COR
QUAD-POLE
L861
L862
35V
GND
Q.P-
Q.P+
CND85
V-OUT
T804
DFT
DF
CND88
TP12V

IC	
IC501	F-9
IC503	F-7
IC801	A-12
IC802	A-8
IC803	A-9

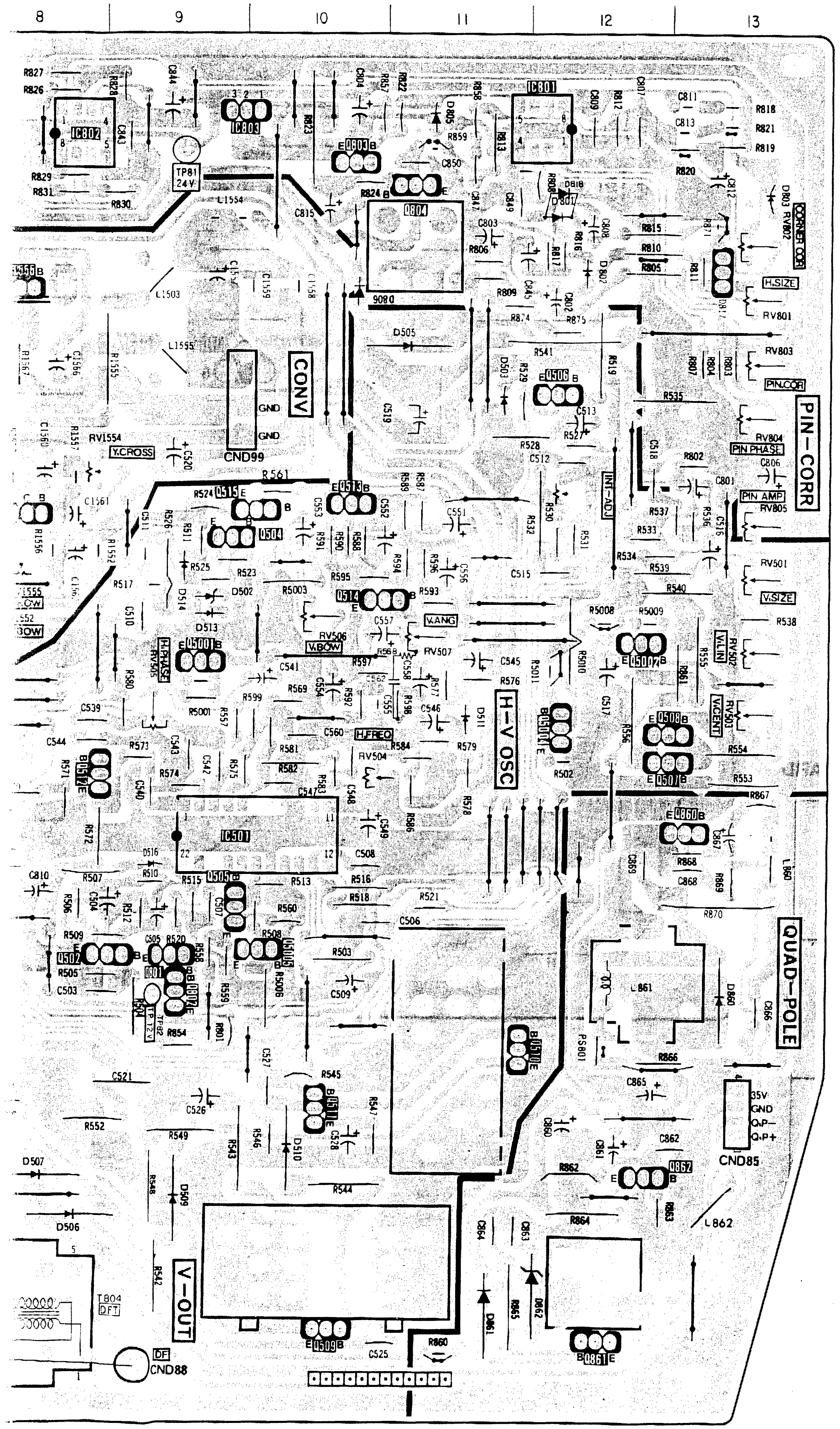
TRANSISTOR	
Q502	G-9
Q504	D-9
Q505	G-9
Q506	C-12
Q507	F-13
Q508	E-13
Q509	J-10
Q510	H-11
Q511	H-10
Q512	F-8
Q513	D-10
Q514	E-10
Q515	D-10
Q801	G-9
Q802	G-9
Q803	A-10
Q804	B-11
Q805	B-6
Q806	E-3
Q860	F-13
Q861	J-12
Q862	I-12
Q5001	E-9
Q5002	E-12
Q5004	E-12
Q5005	G-10

DIODE	
D501	F-6
D502	D-9
D503	C-11
D505	C-11
D506	I-8
D507	I-8
D508	H-7
D509	I-9
D510	H-10
D511	E-11
D513	E-9
D514	D-9
D515	I-7
D801	B-12
D802	B-12
D803	B-13
D805	A-11
D806	B-10
D807	A-5
D808	D-1
D809	C-1
D810	C-5
D811	C-4
D812	I-5
D813	I-6
D815	H-5
D816	G-4
D818	
D825	D-6
D860	G-13
D861	I-11
D862	I-12

VARIABLE RESISTOR	
RV501	D-13
RV502	E-13
RV503	E-13
RV504	F-10
RV505	E-9
RV506	E-10
RV507	E-11
RV801	B-13
RV802	B-13
RV803	C-13
RV804	C-13
RV805	D-13
RV1551	D-6
RV1552	E-7
RV1553	E-7
RV1554	D-8
RV1555	D-8



NOTE:
The circuit indicate
600 Vp-p. Care mus
inspection or repairi


8
9
10
11
12
13
IC802
IC803
IC801
IC501
CONV
PIN-CORR
H-V OSC
QUAD-POLE
V-OUT
PIN CORR
PIN PHASE
PIN AMP
H.SIZE
V.SIZE
V.ANG
V.BOW
H.FREQ
CORNER CORR
Y.CROSS
CND99
CND85
CND88
TP81 24V
L1554
L1503
L1555
L861
L862
T804
DFT
35V
GND
Q.P-
Q.P+
RV801
RV803
RV804
RV805
RV501
RV504
RV506
RV507
RV1554

IC

IC	
IC501	F-9
IC503	F-7
IC801	A-12
IC802	A-8
IC803	A-9

TRANSISTOR

TRANSISTOR	
Q502	G-9
Q504	D-9
Q505	G-9
Q506	C-12
Q507	F-13
Q508	E-13
Q509	J-10
Q510	H-11
Q511	H-10
Q512	F-8
Q513	D-10
Q514	E-10
Q515	D-10
Q801	G-9
Q802	G-9
Q803	A-10
Q804	B-11
Q805	B-6
Q806	E-3
Q860	F-13
Q861	J-12
Q862	I-12
Q5001	E-9
Q5002	E-12
Q5004	E-12
Q5005	G-10

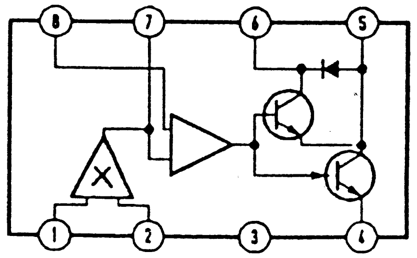
DIODE

DIODE	
D501	F-6
D502	D-9
D503	C-11
D505	C-11
D506	I-8
D507	I-8
D508	H-7
D509	I-9
D510	H-10
D511	E-11
D513	E-9
D514	D-9
D515	I-7
D801	B-12
D802	B-12
D803	B-13
D805	A-11
D806	B-10
D807	A-5
D808	D-1
D809	C-1
D810	C-5
D811	C-4
D812	I-5
D813	I-6
D815	H-5
D816	G-4
D818	
D825	D-6
D860	G-13
D861	I-11
D862	I-12

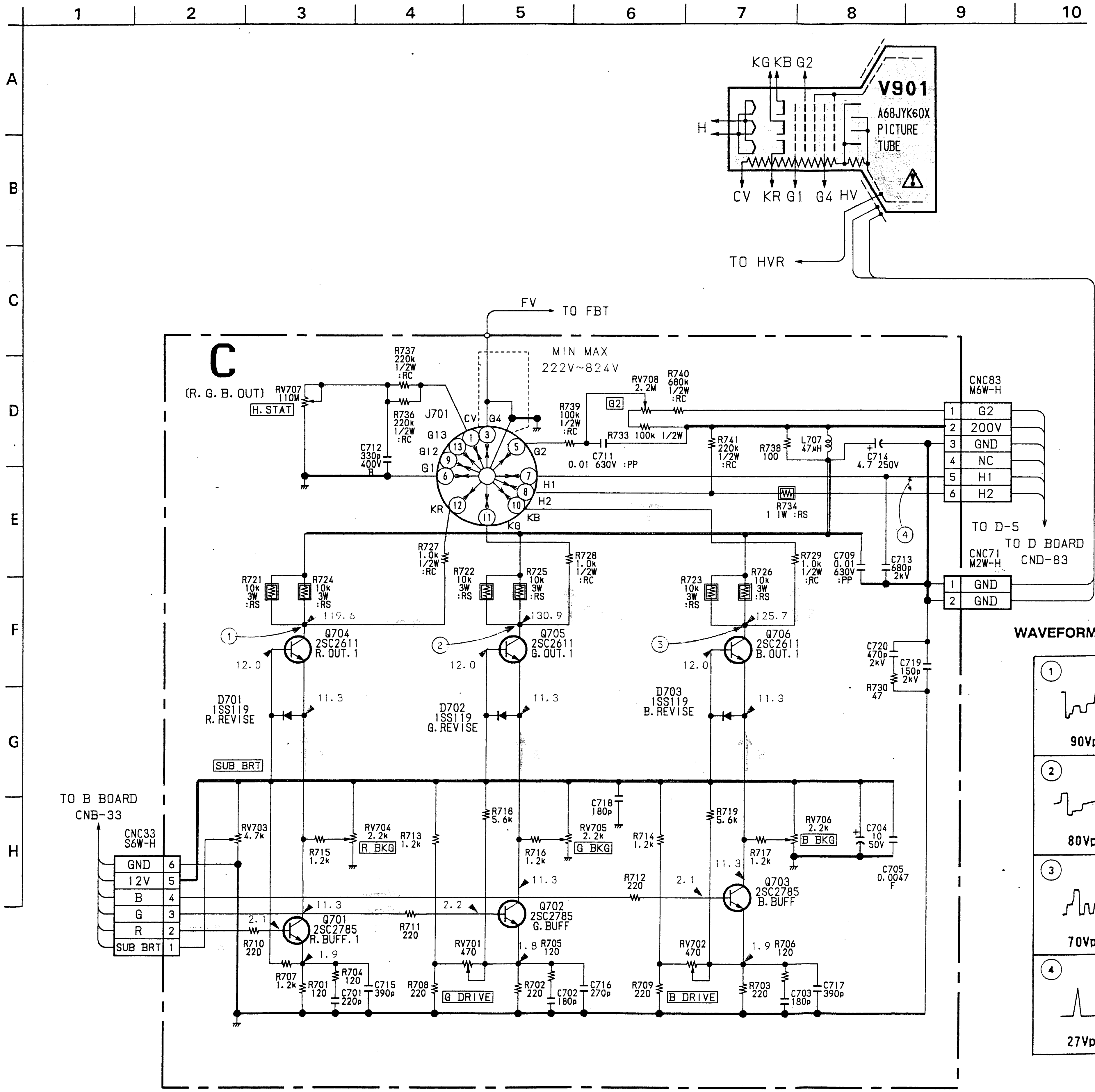
VARIABLE RESISTOR

VARIABLE RESISTOR	
RV501	D-13
RV502	E-13
RV503	E-13
RV504	F-10
RV505	E-9
RV506	E-10
RV507	E-11
RV801	B-13
RV802	B-13
RV803	C-13
RV804	C-13
RV805	D-13
RV1551	D-6
RV1552	E-7
RV1553	E-7
RV1554	D-8
RV1555	D-8

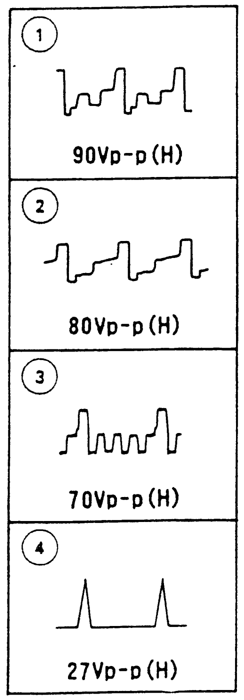
D BOARD IC801 TEA2031A



NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

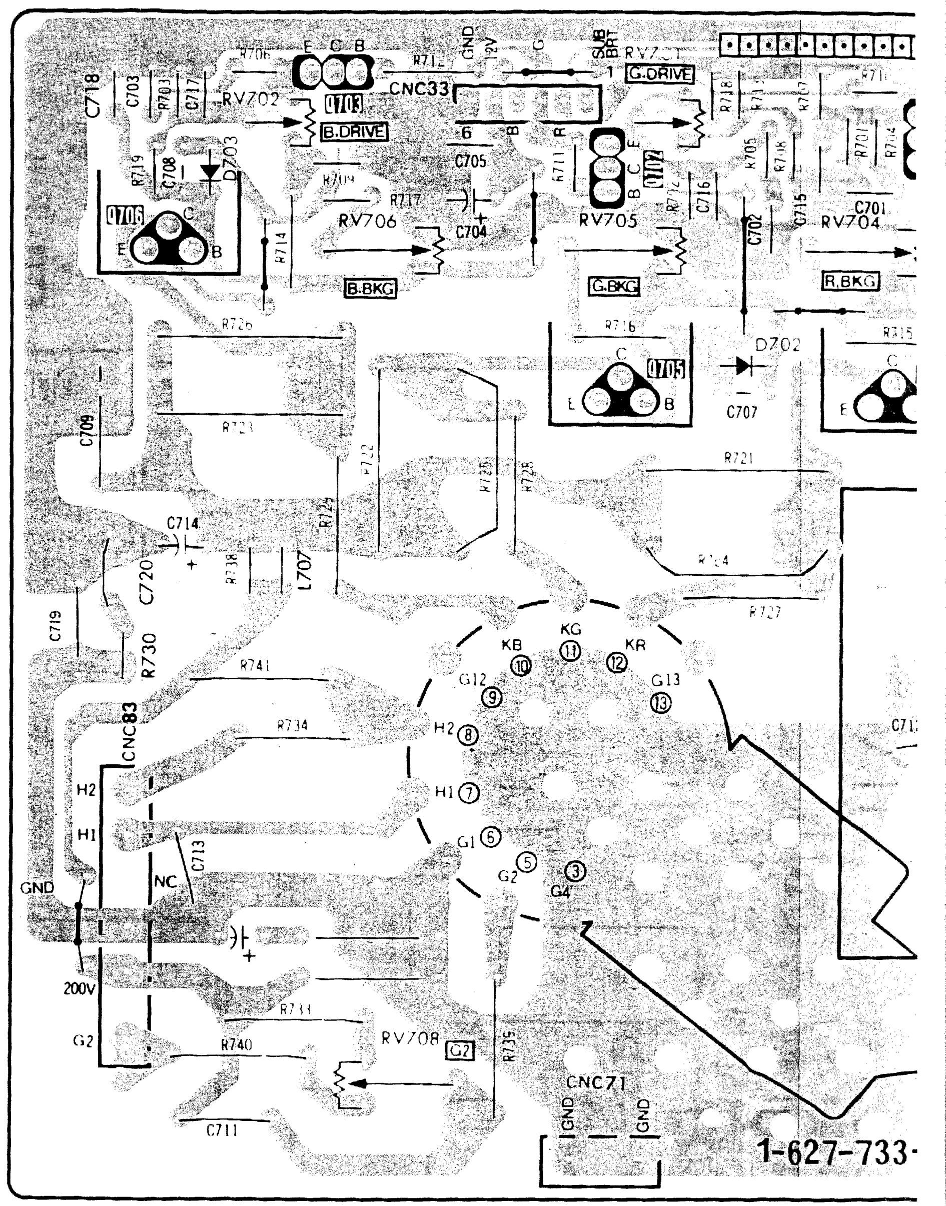

1
2
3
4
5
6
7
8
9
10
A
B
C
D
E
F
G
H
KG KB G2
V901
A68JYK60X
PICTURE
TUBE
H
CV KR G1 G4 HV
TO HVR
FV
TO FBT
C
(R. G. B. OUT)
RV707 110M
H. STAT
R737 220k 1/2W :RC
R736 220k 1/2W :RC
J701
C712 330p 400V
MIN MAX
222V~824V
RV708 2.2M
R740 680k 1/2W :RC
G2
R739 100k 1/2W :RC
R733 100k 1/2W
C711 0.01 630V :PP
R741 220k 1/2W :RC
R738 100
L707 47µH
C714 4.7 250V
R734 1 1W :RS
CNC83 M6W-H
G2
200V
GND
NC
H1
H2
TO D-5
TO D BOARD CND-83
CNC71 M2W-H
GND
GND
R727 1.0k 1/2W :RC
R728 1.0k 1/2W :RC
R729 1.0k 1/2W :RC
C709 0.01 630V :PP
C713 680p 2kV
R721 10k 3W :RS
R724 10k 3W :RS
R722 10k 3W :RS
R725 10k 3W :RS
R723 10k 3W :RS
R726 10k 3W :RS
119.6
130.9
125.7
Q704 2SC2611 R. OUT. 1
Q705 2SC2611 G. OUT. 1
Q706 2SC2611 B. OUT. 1
12.0
11.3
D701 1SS119 R. REVISE
D702 1SS119 G. REVISE
D703 1SS119 B. REVISE
C720 470p 2kV
C719 150p 2kV
R730 47
SUB BRT
TO B BOARD CNB-33
CNC33 S6W-H
GND 6
12V 5
B 4
G 3
R 2
SUB BRT 1
RV703 4.7k
R715 1.2k
RV704 2.2k
R BKG
R713 1.2k
R718 5.6k
C718 180p
RV705 2.2k
G BKG
R716 1.2k
R714 1.2k
R719 5.6k
RV706 2.2k
B BKG
C704 10 50V
R717 1.2k
C705 0.0047 F
Q701 2SC2785 R. BUFF. 1
Q702 2SC2785 G. BUFF
Q703 2SC2785 B. BUFF
R712 220
R711 220
R710 220
2.1
2.2
1.9
1.8
R707 1.2k
R701 120
R704 120
C701 220p
C715 390p
R708 220
RV701 470
G DRIVE
R705 120
R702 220
C702 180p
C716 270p
R709 220
RV702 470
B DRIVE
R706 120
R703 220
C703 180p
C717 390p

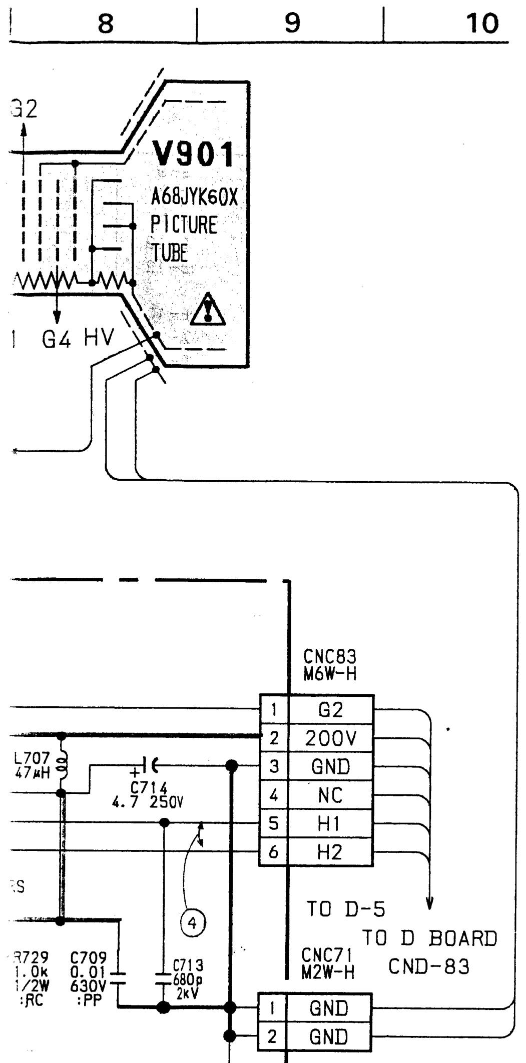
WAVEFORMS C BOARD

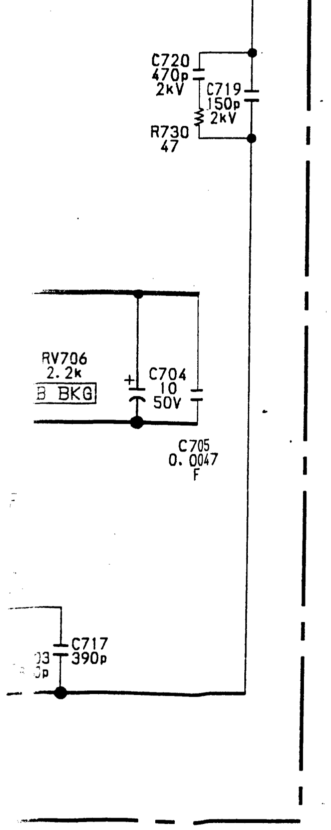


C (R.G.B. OUT)

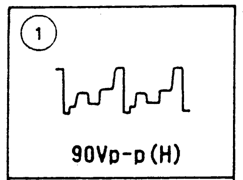
— C Board —


CNC33
G DRIVE
B DRIVE
B.BKG
G.BKG
R.BKG
RV702
RV706
RV705
RV704
RV708
Q703
Q702
Q706
Q705
D703
D702
C707
CNC83
CNC71
KB
KG
KR
G12
G13
H2
H1
G1
G2
G4
NC
GND
200V
G2
1-627-733-

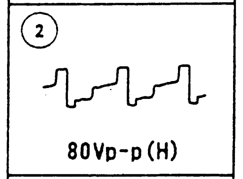

8
9
10
G2
V901
A68JYK60X
PICTURE
TUBE
G4 HV
CNC83
M6W-H
1 G2
2 200V
3 GND
4 NC
5 H1
6 H2
L707
47μH
C714
4.7 250V
④
TO D-5
TO D BOARD
CND-83
CNC71
M2W-H
1 GND
2 GND
R729
1.0k
1/2W
:RC
C709
0.01
630V
:PP
C713
680p
2kV


C720
470p
2kV
C719
150p
2kV
R730
47
RV706
2.2k
B BKG
C704
10
50V
C705
0.0047
F
C717
390p

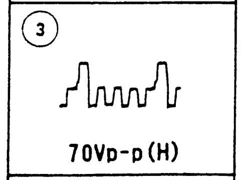
WAVEFORMS C BOARD



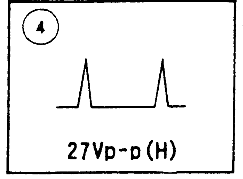
90Vp-p (H)



80Vp-p (H)



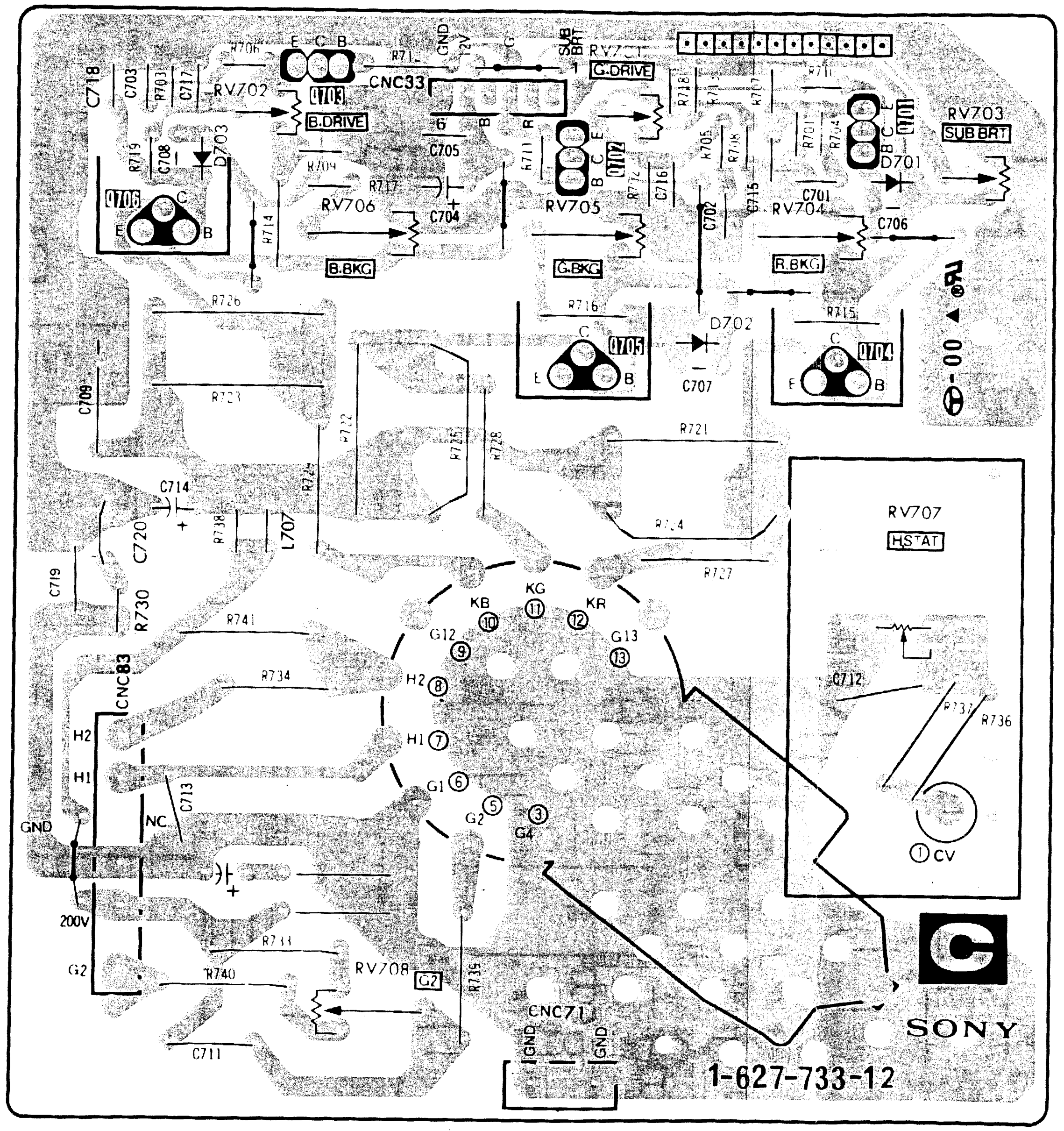
70Vp-p (H)



27Vp-p (H)

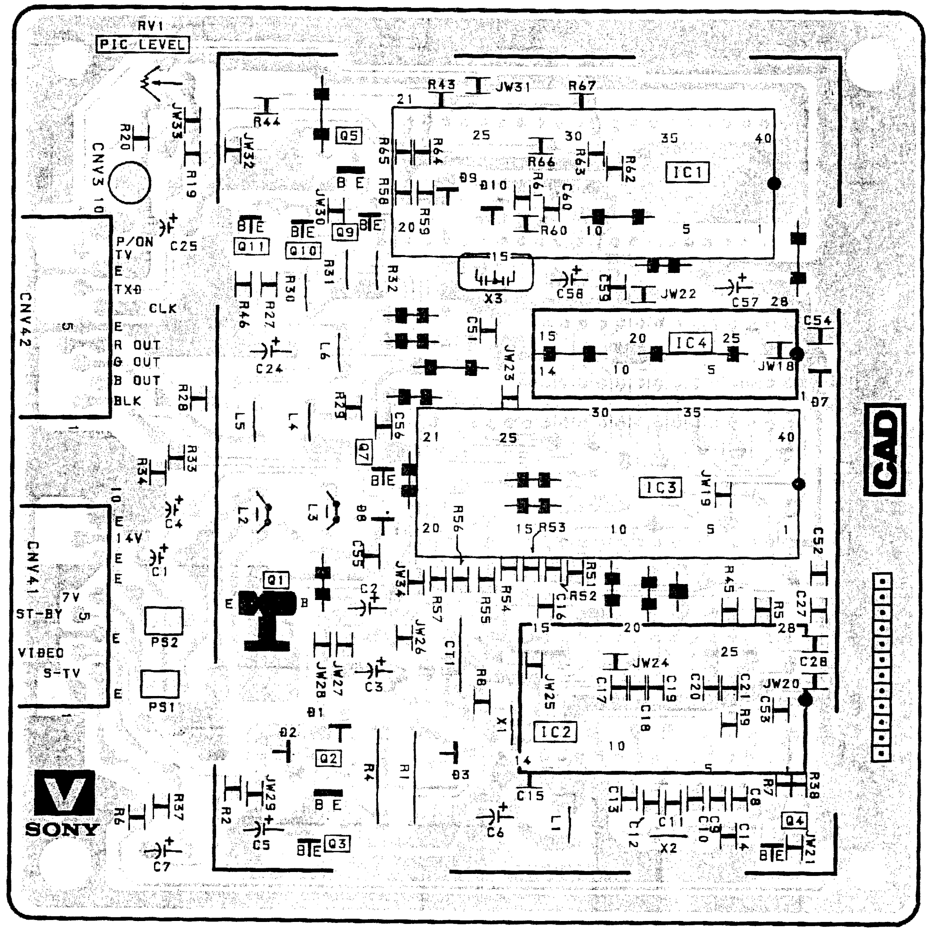
C (R.G.B. OUT)

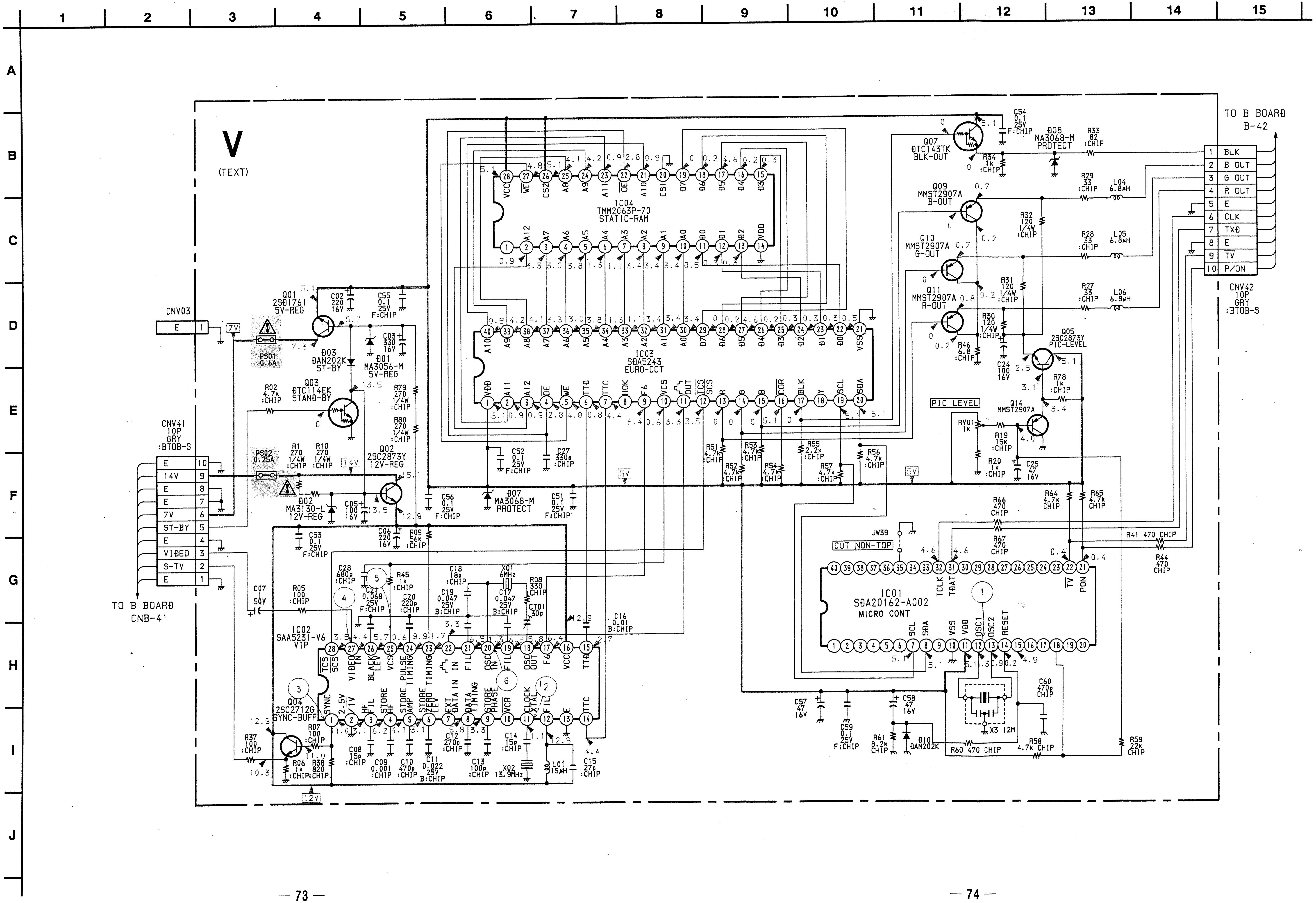
— C Board —


C718
C703
R701
C717
RV702
Q703
B.DRIVE
E C B
CNC33
R713
GND
12V
SUB BRT
RV701
G.DRIVE
R718
RV703
SUB BRT
Q701
D701
Q702
D703
C708
R719
Q706
R709
R717
RV706
C704
C705
R711
RV705
C716
C702
R705
C715
C701
RV704
C706
R714
B.BKG
G.BKG
R.BKG
R726
R716
Q705
D702
C707
R715
Q704
R723
C709
R722
R725
R728
R721
C714
C720
R738
L707
R724
R727
RV707
HSTAT
C719
R730
KB ⑩
KG ⑪
KR ⑫
G12 ⑨
G13 ⑬
H2 ⑧
H1 ⑦
G1 ⑥
G2 ⑤
G4 ③
R741
R734
CNC83
H2
H1
NC
C713
GND
200V
G2
C712
R737
R736
① CV
R733
R740
RV708
G2
R735
C711
CNC71
GND
GND
C
SONY
1-627-733-12

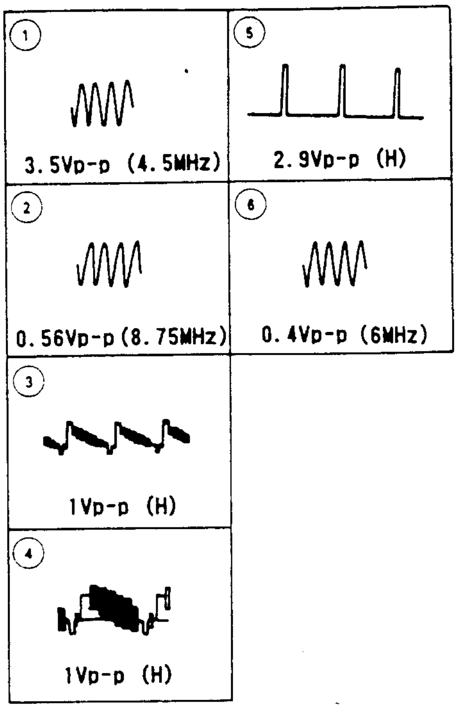
V (TEXT)

— V Board —


RV1
PIC LEVEL
CNV3
R20
JW33
R19
R44
JW32
Q5
R43
JW31
R67
R65
R58
R64
R59
R66
R63
R62
C60
R60
IC1
25
30
35
40
20
10
5
1
P/ON
TV
E
TXD
CLK
E
R OUT
G OUT
B OUT
BLK
CNV42
C25
Q11
Q10
Q9
R30
R31
R32
R46
R27
X3
C58
C59
JW22
C57
C24
L6
C51
JW23
IC4
C54
JW18
R28
R29
C56
L5
L4
Q7
JW19
IC3
R33
R34
L2
L3
C4
14V
C1
E
7V
ST-BY
VIDEO
S-TV
CNV41
PS2
PS1
Q1
C2
JW34
R57
R55
R54
R56
R53
R52
R51
C16
R45
R5
C27
C28
JW26
JW27
JW28
C3
C11
R8
JW24
JW25
C17
C18
C20
C21
R9
C53
JW20
IC2
X1
Q2
R4
R1
Q3
C15
L1
C13
C12
C11
X2
C10
C9
C14
C8
R7
R38
Q4
JW21
R37
R6
R2
JW29
C5
C6
C7
V
SONY
CAD

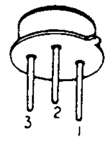

V
(TEXT)
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
A B C D E F G H I J
IC04
TMM2063P-70
STATIC-RAM
IC03
SDA5243
EURO-CCT
IC02
SAA5231-V6
VIP
IC01
SDA20162-A002
MICRO CONT
Q01 2SD1761 5V-REG
Q02 2SC2873Y 12V-REG
Q03 DTC114EK STAND-BY
Q04 2SC2712G SYNC-BUFF
Q05 2SC2873Y PIC-LEVEL
Q07 DTC143TK BLK-OUT
Q09 MMST2907A B-OUT
Q10 MMST2907A G-OUT
Q11 MMST2907A R-OUT
Q14 MMST2907A
D01 MA3056-M 5V-REG
D02 MA3130-L 12V-REG
D03 DAN202K ST-BY
D07 MA3068-M PROTECT
D08 MA3068-M PROTECT
D10 DAN202K
PS01 0.6A
PS02 0.25A
X01 6MHz
X02 13.9MHz
X3 12M
PIC LEVEL
RV01 1k
JW39
CUT NON-TOP
CNV03
CNV41 10P GRY :BTOB-S
E 14V E E 7V ST-BY E VIDEO S-TV E
TO B BOARD CNB-41
TO B BOARD B-42
CNV42 10P GRY :BTOB-S
BLK B OUT G OUT R OUT E CLK TXD E TV P/ON
5V
7V
12V
14V

WAVEFORMS V BOARD

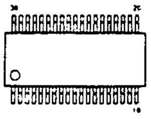


5-4. SEMICONDUCTORE

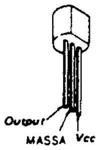
BX1393



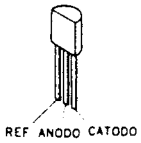
CXK1206M



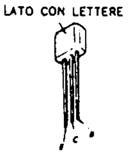
NJM78L24A


Output
MASSA
Vcc

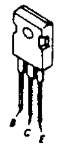
TL431CLP


REF
ANODO
CATODO

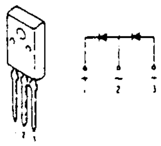
2SA1175
2SC2785


LATO CON LETTERE
E
C
B

2SC3996



D5KD20H



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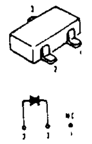
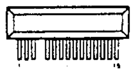
MA3068M
MA3130L



DM-38



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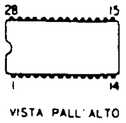
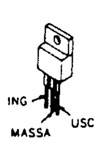
CXA1216P
SAA5231-V6
TDA4555-V8
TDA6200
TMM2063P-70


28
15
1
14
VISTA PALL' ALTO

NJM7809FA
µPC7812H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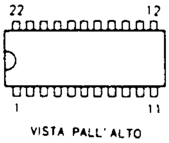
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VISTA PALL' ALTO

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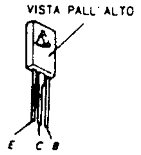
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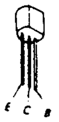
E
C
B

2SD788



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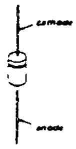
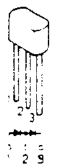
GP08D
RGP10G
1S1555


catode
anode

MC931



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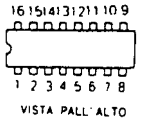
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1 2 3 4 5 6 7 8
VISTA PALL' ALTO

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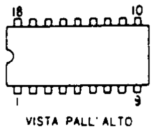
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9
VISTA PALL' ALTO

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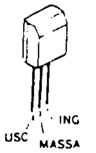
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ING
MASSA

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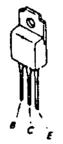

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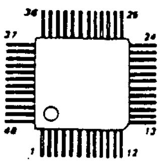
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37
24
48
13
1
12

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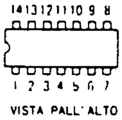
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1 2 3 4 5 6 7
VISTA PALL' ALTO

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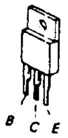
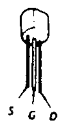
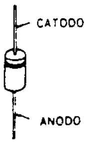
2SD1406



2SK108



ERB81-004
RU-2M
S3V10SS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ANODO

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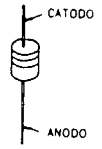
RD4.3ES-B2
RD4.7ES-B2
RD6.8ES-B2
RD7.5ES-B3
RD9.1ES-B3
RD33ES-B4
1SS119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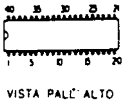
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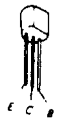
1 5 10 15 20
VISTA PALL' ALTO

BF199



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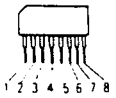

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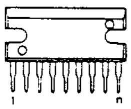

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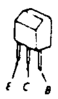
2SD774-4



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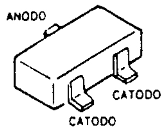
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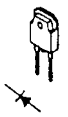
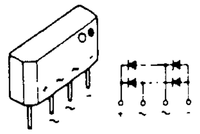
CATODO
CATODO

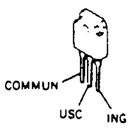
ERD08-15



SIVB10S



SI-3052V
SI-3122V


COMMUN
USC
ING

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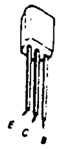
DTA144ES
DTC124ES
DTC144ES
2SB772
2SC2458



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TEA2031A
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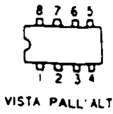
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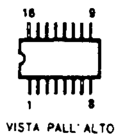
1 2 3 4
VISTA PALL' ALTO

MC74HC4053F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8
VISTA PALL' ALTO

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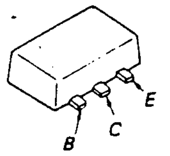

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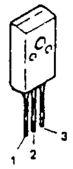

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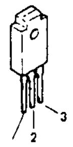

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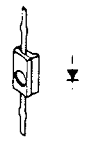

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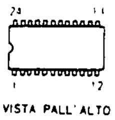
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VISTA PALL' ALTO

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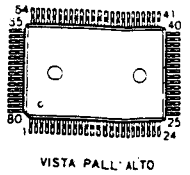
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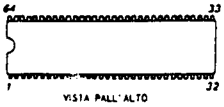
VISTA PALL' ALTO

M37100M8-617SP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VISTA PALL' ALTO

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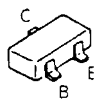

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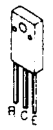

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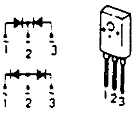

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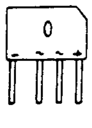


SECTION 6
EXPLODED VIEWS

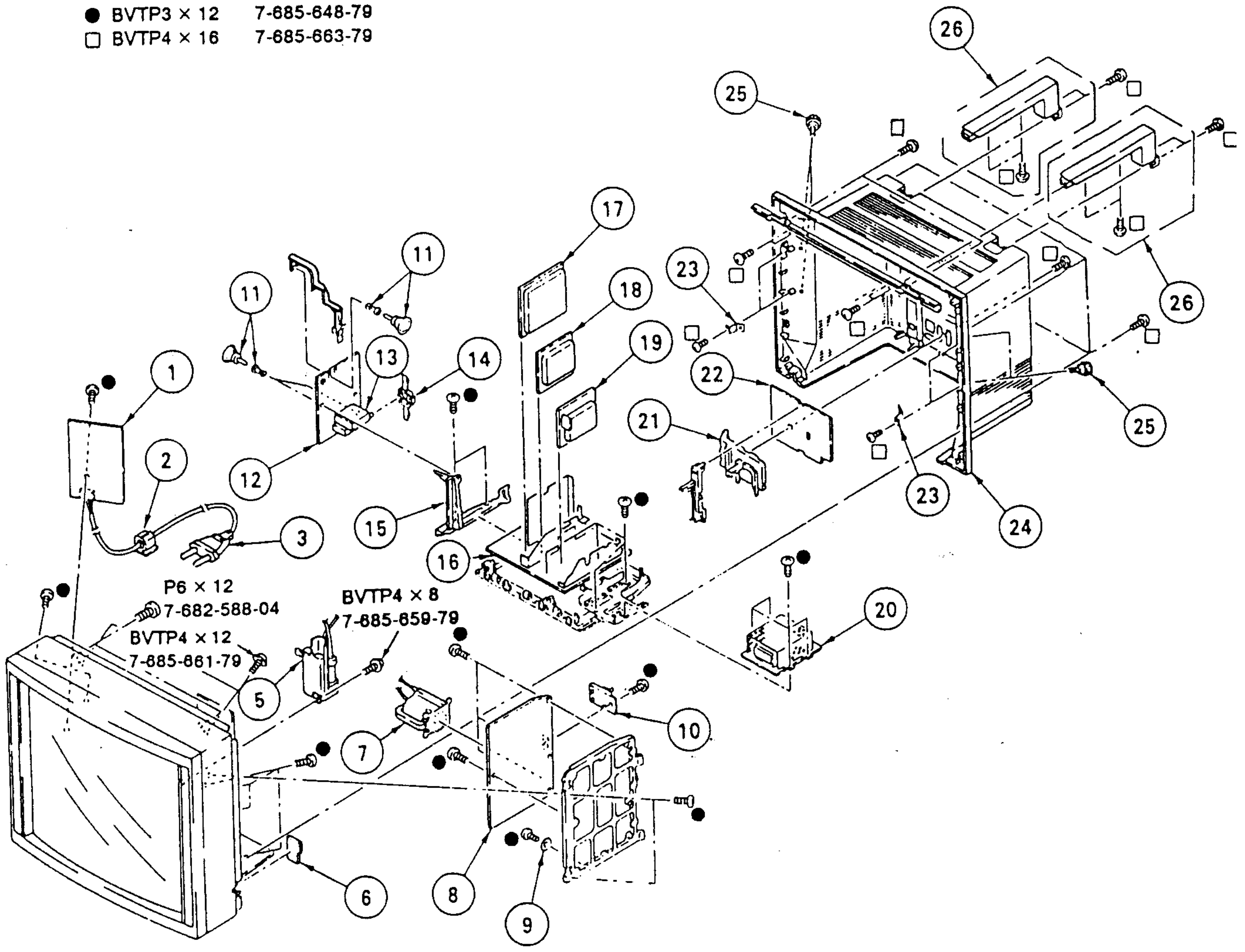
NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

6-1. CHASSIS

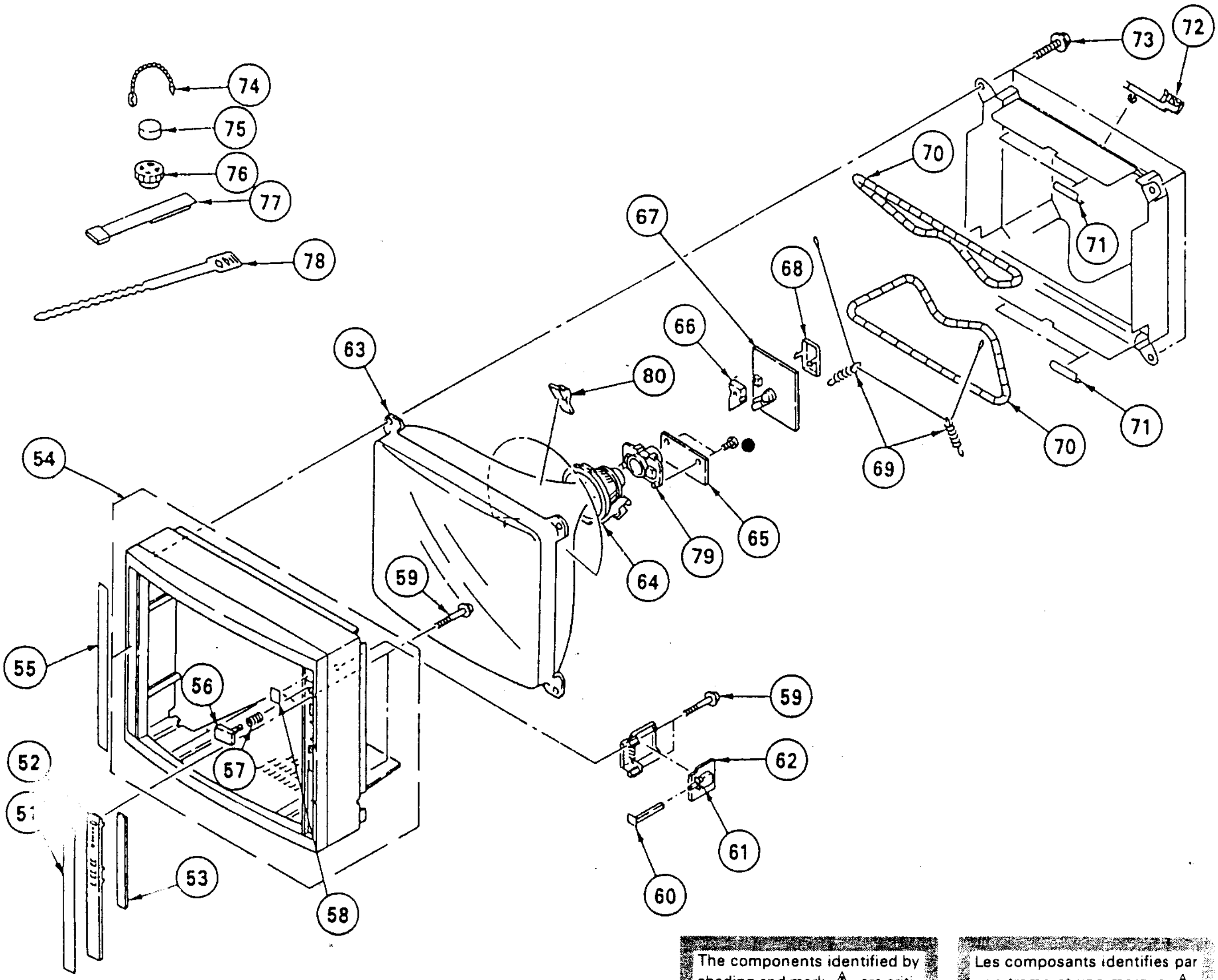
● BVTP3 × 12 7-685-648-79
☐ BVTP4 × 16 7-685-663-79



REF.NO.	PART NO.	DESCRIPTION	REMARK
1	*A-1245-436-A	F2 BOARD, COMPLETE	
2	⚠4-389-201-02	HOLDER, AC CORD	
3	⚠1-559-346-12	CORD, POWER (WITH CONNECTOR)	
5	⚠1-230-940-31	RESISTOR ASSY, HIGH-VOLTAGE	
6	*1-627-736-11	J2 BOARD	
7	⚠1-439-443-11	TRANSFORMER ASSY, FLYBACK	
8	*A-1345-798-A	D BOARD, COMPLETE	
9	3-701-418-00	WASHER, SPECIAL	
10	⚠1-238-368-11	RESISTOR ASSY, HIGH-VOLTAGE	
11	4-386-618-01	RIVET, T TYPE	
12	*A-1296-497-A	A BOARD, COMPLETE	
13	⚠1-465-059-11	TUNER, ET (UV-616S)	
14	*4-386-617-01	HOLDER, TERMINAL	
15	*4-386-629-11	BRACKET, A	
16	*A-1135-521-A	B BOARD, COMPLETE	
17	*A-1275-093-A	Q BOARD, COMPLETE	
18	*A-1645-009-A	V BOARD, COMPLETE	
19	*A-1135-526-A	B1 BOARD, COMPLETE	
20	⚠1-413-380-11	G BOARD (ZD-109)	
21	*4-386-624-11	BRACKET, J	
22	*A-1388-080-A	J1 BOARD, COMPLETE	
23	4-390-735-01	BRACKET, SPEAKER	
24	4-390-723-01	COVER, REAR	
25	X-4374-104-1	SCREW (B) ASSY, ORNAMENTAL	
26	X-4390-706-1	HANDLE ASSY	

6-2. PICTURE TUBE

● BVTP3 × 12 7-685-648-79



The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

REF.NO.	PART NO.	DESCRIPTION	REMARK
51	4-390-734-01	LABEL (B) (R)	
52	4-390-714-01	BRACKET, H PC BOARD	
53	*1-627-728-11	H BOARD	
54	X-4390-701-2	CABINET ASSY (WITH BEZEL ASSY)	56,57
55	4-390-733-01	LABEL (L)	
56	4-390-704-01	BUTTON, POWER	
57	3-666-52[illegible]-00	SPRING, COMPRESSION	
58	4-390-732-01	LABEL (A) (R)	
59	4-319-520-11	SCREW, SPECIAL (+PW4X30)	
60	4-390-70[illegible]-01	SHAFT, BUTTON	
61	⚠1-571-43[illegible]-11	SWITCH, PUSH (AC POWER)	
62	*1-627-734-11	F1 BOARD	
63	⚠8-733-823-05	PICTURE TUBE (A68JYK60X)	
64	⚠1-451-333-11	DEFLECTION YOKE (Y29FXC)	
65	*A-1342-071-A	VM BOARD, COMPLETE	
66	*4-379-167-01	COVER (MAIN), CV	
67	*A-1330-901-A	C BOARD, COMPLETE	
68	*4-379-160-01	COVER (REAR LID), CV	
69	4-369-318-00	SPRING, TENSION	
70	⚠1-426-398-11	COIL, DEMAGNETIZATION	
71	*4-860-518-11	PACKING, TWEETER	
72	*4-387-216-01	HOLDER, LEAD	
73	4-373-263-11	SCREW (M), PT	
74	4-308-870-00	CLIP, LEAD WIRE	
75	1-452-032-00	MAGNET, DISK; 10MM ϕ	
76	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ϕ	
77	X-4306-312-0	PERMALLOY ASSY, CONVERGENCE	
78	3-701-007-00	BAND, BINDING	
79	⚠1-452-509-32	NECK ASSY, PICTURE TUBE (NA-308)	
80	3-704-495-01	SPACER, DY	

SECTION 7
ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

RESISTORS
- All resistors are in ohms
- F : nonflammable

When indicating parts by reference number, please include the board name.

CAPACITORS
- MF : μF, PF : μμF

COILS
- MMH : mH, UH : μH

REF.NO.	PART NO.	DESCRIPTION				REMARK
	*A-1135-521-A	B BOARD, COMPLETE *****************				
		<CAPACITOR>				
C001	1-124-477-11	ELECT	47MF	20%	16V	
C002	1-102-129-00	CERAMIC	0.01MF	10%	50V	
C003	1-102-824-00	CERAMIC	470PF	5%	50V	
C004	1-124-477-11	ELECT	47MF	20%	16V	
C005	1-102-951-00	CERAMIC	15PF	5%	50V	
C006	1-102-947-00	CERAMIC	10PF	0.5PF	50V	
C007	1-130-477-00	MYLAR	0.0033MF	5%	50V	
C009	1-124-927-11	ELECT	4.7MF	20%	50V	
C010	1-124-927-11	ELECT	4.7MF	20%	50V	
C011	1-124-927-11	ELECT	4.7MF	20%	50V	
C012	1-124-927-11	ELECT	4.7MF	20%	50V	
C013	1-101-361-00	CERAMIC	150PF	5%	50V	
C014	1-136-165-00	FILM	0.1MF	5%	50V	
C015	1-136-165-00	FILM	0.1MF	5%	50V	
C016	1-102-980-00	CERAMIC	270PF	5%	50V	
C017	1-124-555-95	ELECT	1000MF	20%	16V	
C018	1-124-478-11	ELECT	100MF	20%	25V	
C019	1-124-477-11	ELECT	47MF	20%	16V	
C021	1-124-555-95	ELECT	1000MF	20%	16V	
C022	1-124-927-11	ELECT	4.7MF	20%	50V	
C027	1-123-875-11	ELECT	10MF	20%	50V	
C028	1-101-004-00	CERAMIC	0.01MF		50V	
C029	1-130-477-00	MYLAR	0.0033MF	5%	50V	
C030	1-102-111-00	CERAMIC	270PF	10%	50V	
C031	1-123-875-11	ELECT	10MF	20%	50V	
C045	1-124-463-00	ELECT	0.1MF	20%	50V	
C251	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C252	1-124-927-11	ELECT	4.7MF	20%	50V	
C253	1-124-910-11	ELECT	47MF	20%	50V	
C254	1-136-165-00	FILM	0.1MF	5%	50V	
C255	1-126-105-11	ELECT	1000MF	20%	35V	
C256	1-136-167-00	FILM	0.15MF	5%	50V	
C261	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C262	1-124-927-11	ELECT	4.7MF	20%	50V	
C263	1-124-910-11	ELECT	47MF	20%	50V	
C264	1-136-165-00	FILM	0.1MF	5%	50V	
C265	1-126-105-11	ELECT	1000MF	20%	35V	
C266	1-136-167-00	FILM	0.15MF	5%	50V	
C271	1-124-910-11	ELECT	47MF	20%	50V	
C272	1-124-913-95	ELECT	470MF	20%	50V	
C273	1-136-165-00	FILM	0.1MF	5%	50V	
C340	1-124-477-11	ELECT	47MF	20%	16V	
C341	1-130-487-00	MYLAR	0.022MF	5%	50V	
C342	1-130-471-00	MYLAR	0.001MF	5%	50V	
C344	1-130-473-00	MYLAR	0.0015MF	5%	50V	
C345	1-136-169-00	FILM	0.22MF	5%	50V	

REF.NO.	PART NO.	DESCRIPTION				REMARK
C346	1-130-483-00	MYLAR	0.01MF	5%	50V	
C347	1-130-479-00	MYLAR	0.0047MF	5%	50V	
C348	1-124-791-11	ELECT	1MF	20%	50V	
C349	1-130-483-00	MYLAR	0.01MF	5%	50V	
C350	1-124-927-11	ELECT	4.7MF	20%	50V	
C351	1-124-791-11	ELECT	1MF	20%	50V	
C352	1-124-927-11	ELECT	4.7MF	20%	50V	
C353	1-130-481-00	MYLAR	0.0068MF	5%	50V	
C354	1-130-476-00	MYLAR	0.0027MF	5%	50V	
C355	1-130-477-00	MYLAR	0.0033MF	5%	50V	
C401	1-126-320-11	ELECT	10MF	20%	16V	
C402	1-126-320-11	ELECT	10MF	20%	16V	
C403	1-126-320-11	ELECT	10MF	20%	16V	
C404	1-124-477-11	ELECT	47MF	20%	16V	
C406	1-136-165-00	FILM	0.1MF	5%	50V	
C407	1-136-165-00	FILM	0.1MF	5%	50V	
C408	1-136-165-00	FILM	0.1MF	5%	50V	
C409	1-123-875-11	ELECT	10MF	20%	50V	
C410	1-124-477-11	ELECT	47MF	20%	16V	
C415	1-136-165-00	FILM	0.1MF	5%	50V	
C416	1-136-165-00	FILM	0.1MF	5%	50V	
C417	1-136-165-00	FILM	0.1MF	5%	50V	
C418	1-124-463-00	ELECT	0.1MF	20%	50V	
C419	1-124-477-11	ELECT	47MF	20%	16V	
C420	1-126-101-11	ELECT	100MF	20%	16V	
C421	1-102-953-00	CERAMIC	18PF	5%	50V	
C422	1-123-875-11	ELECT	10MF	20%	50V	
C423	1-124-477-11	ELECT	47MF	20%	16V	
C424	1-124-477-11	ELECT	47MF	20%	16V	
C427	1-123-875-11	ELECT	10MF	20%	50V	
C432	1-123-875-11	ELECT	10MF	20%	50V	
C434	1-124-477-11	ELECT	47MF	20%	16V	
C435	1-124-477-11	ELECT	47MF	20%	16V	
C4001	1-123-875-11	ELECT	10MF	20%	50V	
C4002	1-126-101-11	ELECT	100MF	20%	16V	
C4003	1-124-902-00	ELECT	0.47MF	20%	50V	
C4004	1-124-902-00	ELECT	0.47MF	20%	50V	
C4005	1-124-902-00	ELECT	0.47MF	20%	50V	
C4006	1-124-464-11	ELECT	0.22MF	20%	50V	
C4007	1-124-464-11	ELECT	0.22MF	20%	50V	
C4008	1-124-464-11	ELECT	0.22MF	20%	50V	
C4009	1-102-816-00	CERAMIC	120PF	5%	50V	
C4010	1-102-959-00	CERAMIC	22PF	5%	50V	
C4011	1-126-233-11	ELECT	22MF	20%	50V	
C4012	1-136-173-00	FILM	0.47MF	5%	50V	
C4013	1-101-884-00	CERAMIC	56PF	5%	50V	
C4014	1-130-483-00	MYLAR	0.01MF	5%	50V	
C4015	1-102-978-00	CERAMIC	220PF	5%	50V	
C4016	1-123-875-11	ELECT	10MF	20%	50V	
C4017	1-101-004-00	CERAMIC	0.01MF		50V	
C4018	1-124-791-11	ELECT	1MF	20%	50V	

B

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

REF.NO.	PART NO.	DESCRIPTION	REMARK
C4019	1-101-004-00	CERAMIC 0.01MF	50V
C4020	1-123-875-11	ELECT 10MF 20%	50V
C4021	1-124-477-11	ELECT 47MF 20%	16V
C4022	1-124-791-11	ELECT 1MF 20%	50V
C4023	1-102-112-00	CERAMIC 330PF 10%	50V
C4024	1-126-101-11	ELECT 100MF 20%	16V
C4030	1-124-791-11	ELECT 1MF 20%	50V
C4031	1-123-875-11	ELECT 10MF 20%	50V
C4032	1-124-791-11	ELECT 1MF 20%	50V
		<FILTER>	
CF001	1-577-082-11	VIBRATOR, CERAMIC	
		<CONNECTOR>	
CNB01	*1-564-511-11	PLUG, CONNECTOR 8P	
CNB02	*1-564-508-11	PLUG, CONNECTOR 5P	
CNB03	*1-566-367-11	CONNECTOR, HINGE (RECEPTACLE)	
CNB11	*1-566-660-11	CONNECTOR, HINGE (PLUG) 18P	
CNB13	*1-564-881-11	PLUG, CONNECTOR 4P	
CNB21	*1-566-367-11	CONNECTOR, HINGE (RECEPTACLE)	
CNB23	*1-564-511-11	PLUG, CONNECTOR 8P	
CNB31	*1-565-501-11	CONNECTOR, BOARD TO BOARD 10P	
CNB32	*1-565-501-11	CONNECTOR, BOARD TO BOARD 10P	
CNB33	*1-564-509-11	PLUG, CONNECTOR 6P	
CNB41	*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR	
CNB42	*1-565-394-11	PIN, BOARD TO BOARD CONNECTOR	
CNB43	*1-565-509-11	CONNECTOR, BOARD TO BOARD 18P	
CNB44	*1-565-509-11	CONNECTOR, BOARD TO BOARD 18P	
CNB60	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P	
CNB62	*1-564-507-11	PLUG, CONNECTOR 4P	
CNB63	*1-564-509-11	PLUG, CONNECTOR 6P	
CNB81	*1-564-513-11	PLUG, CONNECTOR 10P	
CNB83	*1-564-506-11	PLUG, CONNECTOR 3P	
CNB89	*1-564-508-11	PLUG, CONNECTOR 5P	
		<DIODE>	
D001	8-719-120-14	DIODE RD3.9ES-L1	
D002	8-719-911-19	DIODE 1SS119	
D003	8-719-911-19	DIODE 1SS119	
D004	8-719-911-19	DIODE 1SS119	
D005	8-719-911-19	DIODE 1SS119	
D006	8-719-911-19	DIODE 1SS119	
D007	8-719-110-80	DIODE RD33ES-B4	
D008	8-719-911-19	DIODE 1SS119	
D009	8-719-911-19	DIODE 1SS119	
D011	8-719-911-19	DIODE 1SS119	
D012	8-719-911-19	DIODE 1SS119	
D271	8-719-110-14	DIODE RD9.1ES-B3	
D341	8-719-911-19	DIODE 1SS119	
D342	8-719-911-19	DIODE 1SS119	
D343	8-719-911-19	DIODE 1SS119	
D344	8-719-120-14	DIODE RD3.9ES-L1	
D347	8-719-911-19	DIODE 1SS119	
D348	8-719-911-19	DIODE 1SS119	
D371	8-719-911-55	DIODE U05G	
D381	8-719-911-19	DIODE 1SS119	
D401	8-719-110-04	DIODE RD7.5ES-B3	
D402	8-719-110-04	DIODE RD7.5ES-B3	
D403	8-719-110-04	DIODE RD7.5ES-B3	
D404	8-719-911-19	DIODE 1SS119	
D405	8-719-911-19	DIODE 1SS119	

REF.NO.	PART NO.	DESCRIPTION	REMARK
D406	8-719-911-19	DIODE 1SS119	
D407	8-719-109-81	DIODE RD4.7ES-B2	
D408	8-719-911-19	DIODE 1SS119	
D411	8-719-911-19	DIODE 1SS119	
D412	8-719-911-19	DIODE 1SS119	
D413	8-719-911-19	DIODE 1SS119	
D415	8-719-911-19	DIODE 1SS119	
D416	8-719-911-19	DIODE 1SS119	
D417	8-719-911-19	DIODE 1SS119	
D4001	8-719-911-19	DIODE 1SS119	
D4002	8-719-911-19	DIODE 1SS119	
D4003	8-719-911-19	DIODE 1SS119	
D4029	8-719-911-19	DIODE 1SS119	
D4030	8-719-911-19	DIODE 1SS119	
		<IC>	
IC001	8-759-632-66	IC M37100M8-714SP	
IC002	8-759-972-43	IC PCD8582	
IC003	8-759-972-43	IC PCD8582	
IC004	8-759-232-01	IC TC74HC00AP	
IC005	8-749-931-22	IC SI-3122V	
	4-363-414-00	SPACER, MICA; IC005	
	*4-391-704-01	HOLDER (A), TR; IC005	
IC251	8-759-803-31	IC LA4280	
	*4-368-683-01	SPRING; IC251	
IC341	8-759-946-99	IC TDA2595-V7	
IC381	8-759-240-40	IC TC4040BP	
IC402	8-759-504-21	IC TDA8443A-C4	
IC403	8-759-000-49	IC MC14066BCP	
IC404	8-759-909-70	IC CX23025	
IC4002	8-752-034-85	IC CXA1216P	
IC4003	8-759-982-10	IC RC7809FA	
		<COIL>	
L001	1-410-478-11	INDUCTOR 47UH	
L002	1-410-471-11	INDUCTOR 12UH	
L003	1-408-225-00	INDUCTOR 3.3UH	
L027	1-410-478-11	INDUCTOR 47UH	
L4001	1-408-411-00	INDUCTOR 15UH	
		<IC LINK>	
PS001⚠	1-532-637-91	LINK, IC 1A	
		<TRANSISTOR>	
Q001	8-729-173-38	TRANSISTOR 2SA733-K	
Q002	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q003	8-729-173-38	TRANSISTOR 2SA733-K	
Q004	8-729-173-38	TRANSISTOR 2SA733-K	
Q005	8-729-900-65	TRANSISTOR DTA144ES	
Q271	8-729-900-36	TRANSISTOR DTC124ES	
Q340	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q341	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q342	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q343	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q344	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q345	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q346	8-729-900-89	TRANSISTOR DTC144ES	
Q380	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q381	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q382	8-729-900-89	TRANSISTOR DTC144ES	

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q383	8-729-900-89	TRANSISTOR DTC144ES	
Q401	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q402	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q403	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q404	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q405	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q406	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q407	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q408	8-729-173-38	TRANSISTOR 2SA733-K	
Q409	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q410	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q411	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q412	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q415	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q418	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q419	8-729-173-38	TRANSISTOR 2SA733-K	
Q420	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q421	8-729-173-38	TRANSISTOR 2SA733-K	
Q422	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q423	8-729-173-38	TRANSISTOR 2SA733-K	
Q424	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q425	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q431	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q4001	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q4004	8-729-173-38	TRANSISTOR 2SA733-K	
Q4005	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q4006	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q4007	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q4008	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q4009	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q4011	8-729-600-12	TRANSISTOR 2SK108-C	
Q4019	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q4024	8-729-600-12	TRANSISTOR 2SK108-C	
Q4027	8-729-173-38	TRANSISTOR 2SA733-K	
Q4028	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q4029	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q4033	8-729-900-36	TRANSISTOR DTC124ES	
Q4045	8-729-900-63	TRANSISTOR DTA124ES	

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
R001	1-249-413-11	CARBON	470	5%	1/4W	
R002	1-249-431-11	CARBON	15K	5%	1/4W	
R003	1-249-425-11	CARBON	4.7K	5%	1/4W	
R005	1-249-429-11	CARBON	10K	5%	1/4W	
R007	1-249-429-11	CARBON	10K	5%	1/4W	
R008	1-249-429-11	CARBON	10K	5%	1/4W	
R009	1-249-429-11	CARBON	10K	5%	1/4W	
R010	1-249-429-11	CARBON	10K	5%	1/4W	
R011	1-249-429-11	CARBON	10K	5%	1/4W	
R012	1-249-429-11	CARBON	10K	5%	1/4W	
R013	1-249-429-11	CARBON	10K	5%	1/4W	
R014	1-249-429-11	CARBON	10K	5%	1/4W	
R015	1-249-425-11	CARBON	4.7K	5%	1/4W	
R016	1-249-417-11	CARBON	1K	5%	1/4W	
R017	1-249-419-11	CARBON	1.5K	5%	1/4W	
R019	1-249-432-11	CARBON	18K	5%	1/4W	
R020	1-249-439-11	CARBON	68K	5%	1/4W	
R021	1-249-429-11	CARBON	10K	5%	1/4W	
R022	1-249-429-11	CARBON	10K	5%	1/4W	
R023	1-249-429-11	CARBON	10K	5%	1/4W	
R024	1-249-438-11	CARBON	56K	5%	1/4W	
R025	1-249-429-11	CARBON	10K	5%	1/4W	
R026	1-249-429-11	CARBON	10K	5%	1/4W	
R029	1-249-429-11	CARBON	10K	5%	1/4W	
R030	1-249-431-11	CARBON	15K	5%	1/4W	
R031	1-249-429-11	CARBON	10K	5%	1/4W	
R032	1-249-429-11	CARBON	10K	5%	1/4W	
R033	1-249-432-11	CARBON	18K	5%	1/4W	
R037	1-249-417-11	CARBON	1K	5%	1/4W	
R038	1-249-417-11	CARBON	1K	5%	1/4W	
R039	1-249-417-11	CARBON	1K	5%	1/4W	
R040	1-249-417-11	CARBON	1K	5%	1/4W	
R041	1-249-417-11	CARBON	1K	5%	1/4W	
R042	1-249-417-11	CARBON	1K	5%	1/4W	
R043	1-249-413-11	CARBON	470	5%	1/4W	
R044	1-249-413-11	CARBON	470	5%	1/4W	
R045	1-249-411-11	CARBON	330	5%	1/4W	
R046	1-249-429-11	CARBON	10K	5%	1/4W	
R047	1-249-429-11	CARBON	10K	5%	1/4W	
R048	1-249-429-11	CARBON	10K	5%	1/4W	
R049	1-249-429-11	CARBON	10K	5%	1/4W	
R050	1-249-429-11	CARBON	10K	5%	1/4W	
R051	1-249-429-11	CARBON	10K	5%	1/4W	
R052	1-249-429-11	CARBON	10K	5%	1/4W	
R053	1-249-425-11	CARBON	4.7K	5%	1/4W	
R054	1-249-413-11	CARBON	470	5%	1/4W	
R055	1-249-413-11	CARBON	470	5%	1/4W	
R056	1-249-429-11	CARBON	10K	5%	1/4W	
R057	1-249-429-11	CARBON	10K	5%	1/4W	
R058	1-249-429-11	CARBON	10K	5%	1/4W	
R059	1-249-417-11	CARBON	1K	5%	1/4W	
R060	1-249-417-11	CARBON	1K	5%	1/4W	
R061	1-249-413-11	CARBON	470	5%	1/4W	
R062	1-249-423-11	CARBON	3.3K	5%	1/4W	
R063	1-249-435-11	CARBON	33K	5%	1/4W	
R064	1-249-441-11	CARBON	100K	5%	1/4W	
R065	1-249-425-11	CARBON	4.7K	5%	1/4W	
R066	1-249-425-11	CARBON	4.7K	5%	1/4W	
R067	1-249-425-11	CARBON	4.7K	5%	1/4W	
R068	1-249-431-11	CARBON	15K	5%	1/4W	
R069	1-249-429-11	CARBON	10K	5%	1/4W	
R070	1-249-421-11	CARBON	2.2K	5%	1/4W	
R071	1-249-413-11	CARBON	470	5%	1/4W	
R072	1-249-413-11	CARBON	470	5%	1/4W	
R073	1-249-417-11	CARBON	1K	5%	1/4W	
R074	1-249-427-11	CARBON	6.8K	5%	1/4W	
R076	1-249-437-11	CARBON	47K	5%	1/4W	
R077	1-249-437-11	CARBON	47K	5%	1/4W	
R078	1-249-437-11	CARBON	47K	5%	1/4W	
R079	1-249-429-11	CARBON	10K	5%	1/4W	
R082	1-249-429-11	CARBON	10K	5%	1/4W	
R083	1-249-417-11	CARBON	1K	5%	1/4W	
R084	1-249-429-11	CARBON	10K	5%	1/4W	
R251	1-249-419-11	CARBON	1.5K	5%	1/4W	
R252	1-249-423-11	CARBON	3.3K	5%	1/4W	
R253	1-249-413-11	CARBON	470	5%	1/4W	
R254	1-249-385-11	CARBON	2.2	5%	1/4W	F
R261	1-249-419-11	CARBON	1.5K	5%	1/4W	
R262	1-249-423-11	CARBON	3.3K	5%	1/4W	
R263	1-249-413-11	CARBON	470	5%	1/4W	
R264	1-249-385-11	CARBON	2.2	5%	1/4W	F
R271	1-249-413-11	CARBON	470	5%	1/4W	
R272	1-249-429-11	CARBON	10K	5%	1/4W	
R273	1-249-417-11	CARBON	1K	5%	1/4W	
R333	1-247-883-00	CARBON	150K	5%	1/4W	
R340	1-249-431-11	CARBON	15K	5%	1/4W	

B

REF.NO.	PART NO.	DESCRIPTION				REMARK
R341	1-249-425-11	CARBON	4.7K	5%	1/4W	
R343	1-249-417-11	CARBON	1K	5%	1/4W	
R344	1-249-425-11	CARBON	4.7K	5%	1/4W	
R345	1-249-429-11	CARBON	10K	5%	1/4W	
R346	1-249-425-11	CARBON	4.7K	5%	1/4W	
R347	1-249-417-11	CARBON	1K	5%	1/4W	
R348	1-249-437-11	CARBON	47K	5%	1/4W	
R349	1-249-429-11	CARBON	10K	5%	1/4W	
R350	1-249-433-11	CARBON	22K	5%	1/4W	
R351	1-249-423-11	CARBON	3.3K	5%	1/4W	
R352	1-247-883-00	CARBON	150K	5%	1/4W	
R353	1-249-416-11	CARBON	820	5%	1/4W	
R354	1-249-415-11	CARBON	680	5%	1/4W	
R355	1-249-428-11	CARBON	8.2K	5%	1/4W	
R356	1-249-441-11	CARBON	100K	5%	1/4W	
R357	1-247-881-00	CARBON	120K	5%	1/4W	
R358	1-249-430-11	CARBON	12K	5%	1/4W	
R359	1-247-885-00	CARBON	180K	5%	1/4W	
R360	1-249-425-11	CARBON	4.7K	5%	1/4W	
R361	1-249-423-11	CARBON	3.3K	5%	1/4W	
R362	1-249-433-11	CARBON	22K	5%	1/4W	
R363	1-249-433-11	CARBON	22K	5%	1/4W	
R364	1-249-418-11	CARBON	1.2K	5%	1/4W	
R365	1-249-425-11	CARBON	4.7K	5%	1/4W	
R366	1-249-417-11	CARBON	1K	5%	1/4W	
R367	1-249-421-11	CARBON	2.2K	5%	1/4W	
R368	1-249-429-11	CARBON	10K	5%	1/4W	
R369	1-249-425-11	CARBON	4.7K	5%	1/4W	
R370	1-249-413-11	CARBON	470	5%	1/4W	
R371	1-249-405-11	CARBON	100	5%	1/4W	
R372	1-249-405-11	CARBON	100	5%	1/4W	
R373	1-249-417-11	CARBON	1K	5%	1/4W	
R374	1-249-431-11	CARBON	15K	5%	1/4W	
R375	1-249-435-11	CARBON	33K	5%	1/4W	
R376	1-249-419-11	CARBON	1.5K	5%	1/4W	
R377	1-249-421-11	CARBON	2.2K	5%	1/4W	
R378	1-249-422-11	CARBON	2.7K	5%	1/4W	
R381	1-249-429-11	CARBON	10K	5%	1/4W	
R404	1-249-429-11	CARBON	10K	5%	1/4W	
R405	1-249-429-11	CARBON	10K	5%	1/4W	
R406	1-249-417-11	CARBON	1K	5%	1/4W	
R407	1-249-429-11	CARBON	10K	5%	1/4W	
R408	1-249-429-11	CARBON	10K	5%	1/4W	
R409	1-249-417-11	CARBON	1K	5%	1/4W	
R410	1-249-429-11	CARBON	10K	5%	1/4W	
R411	1-249-429-11	CARBON	10K	5%	1/4W	
R412	1-249-417-11	CARBON	1K	5%	1/4W	
R413	1-249-403-11	CARBON	68	5%	1/4W	
R414	1-249-403-11	CARBON	68	5%	1/4W	
R415	1-249-403-11	CARBON	68	5%	1/4W	
R416	1-249-419-11	CARBON	1.5K	5%	1/4W	
R417	1-249-411-11	CARBON	330	5%	1/4W	
R418	1-249-419-11	CARBON	1.5K	5%	1/4W	
R419	1-249-411-11	CARBON	330	5%	1/4W	
R420	1-249-419-11	CARBON	1.5K	5%	1/4W	
R421	1-249-411-11	CARBON	330	5%	1/4W	
R422	1-249-429-11	CARBON	10K	5%	1/4W	
R423	1-249-429-11	CARBON	10K	5%	1/4W	
R424	1-249-421-11	CARBON	2.2K	5%	1/4W	
R425	1-247-804-11	CARBON	75	5%	1/4W	
R426	1-249-409-11	CARBON	220	5%	1/4W	
R427	1-249-425-11	CARBON	4.7K	5%	1/4W	
R428	1-249-425-11	CARBON	4.7K	5%	1/4W	
R429	1-249-429-11	CARBON	10K	5%	1/4W	
R430	1-249-413-11	CARBON	470	5%	1/4W	
R431	1-249-413-11	CARBON	470	5%	1/4W	
R432	1-249-425-11	CARBON	4.7K	5%	1/4W	
R433	1-249-411-11	CARBON	330	5%	1/4W	
R434	1-249-409-11	CARBON	220	5%	1/4W	
R437	1-249-429-11	CARBON	10K	5%	1/4W	
R438	1-249-427-11	CARBON	6.8K	5%	1/4W	
R439	1-249-413-11	CARBON	470	5%	1/4W	
R440	1-249-409-11	CARBON	220	5%	1/4W	
R441	1-249-417-11	CARBON	1K	5%	1/4W	
R442	1-249-417-11	CARBON	1K	5%	1/4W	
R443	1-249-417-11	CARBON	1K	5%	1/4W	
R444	1-249-429-11	CARBON	10K	5%	1/4W	
R445	1-249-427-11	CARBON	6.8K	5%	1/4W	
R446	1-249-417-11	CARBON	1K	5%	1/4W	
R453	1-249-413-11	CARBON	470	5%	1/4W	
R456	1-249-417-11	CARBON	1K	5%	1/4W	
R460	1-249-413-11	CARBON	470	5%	1/4W	
R461	1-249-413-11	CARBON	470	5%	1/4W	
R462	1-249-413-11	CARBON	470	5%	1/4W	
R463	1-249-413-11	CARBON	470	5%	1/4W	
R466	1-249-417-11	CARBON	1K	5%	1/4W	
R467	1-249-425-11	CARBON	4.7K	5%	1/4W	
R468	1-249-415-11	CARBON	680	5%	1/4W	
R470	1-249-425-11	CARBON	4.7K	5%	1/4W	
R471	1-249-415-11	CARBON	680	5%	1/4W	
R473	1-249-425-11	CARBON	4.7K	5%	1/4W	
R474	1-249-415-11	CARBON	680	5%	1/4W	
R476	1-249-417-11	CARBON	1K	5%	1/4W	
R477	1-249-441-11	CARBON	100K	5%	1/4W	
R478	1-249-429-11	CARBON	10K	5%	1/4W	
R479	1-249-429-11	CARBON	10K	5%	1/4W	
R480	1-249-429-11	CARBON	10K	5%	1/4W	
R481	1-249-407-11	CARBON	150	5%	1/4W	
R482	1-249-417-11	CARBON	1K	5%	1/4W	
R483	1-249-417-11	CARBON	1K	5%	1/4W	
R484	1-249-433-11	CARBON	22K	5%	1/4W	
R489	1-247-891-00	CARBON	330K	5%	1/4W	
R490	1-247-891-00	CARBON	330K	5%	1/4W	
R491	1-249-417-11	CARBON	1K	5%	1/4W	
R4001	1-249-436-11	CARBON	39K	5%	1/4W	
R4002	1-249-437-11	CARBON	47K	5%	1/4W	
R4003	1-249-434-11	CARBON	27K	5%	1/4W	
R4004	1-249-437-11	CARBON	47K	5%	1/4W	
R4005	1-249-431-11	CARBON	15K	5%	1/4W	
R4006	1-249-431-11	CARBON	15K	5%	1/4W	
R4007	1-249-421-11	CARBON	2.2K	5%	1/4W	
R4008	1-249-421-11	CARBON	2.2K	5%	1/4W	
R4009	1-249-421-11	CARBON	2.2K	5%	1/4W	
R4010	1-249-436-11	CARBON	39K	5%	1/4W	
R4011	1-249-422-11	CARBON	2.7K	5%	1/4W	
R4012	1-249-417-11	CARBON	1K	5%	1/4W	
R4014	1-249-441-11	CARBON	100K	5%	1/4W	
R4015	1-249-441-11	CARBON	100K	5%	1/4W	
R4016	1-249-439-11	CARBON	68K	5%	1/4W	
R4017	1-249-425-11	CARBON	4.7K	5%	1/4W	
R4019	1-249-425-11	CARBON	4.7K	5%	1/4W	
R4020	1-249-429-11	CARBON	10K	5%	1/4W	
R4021	1-249-429-11	CARBON	10K	5%	1/4W	
R4022	1-249-405-11	CARBON	100	5%	1/4W	
R4023	1-249-405-11	CARBON	100	5%	1/4W	
R4024	1-249-405-11	CARBON	100	5%	1/4W	
R4025	1-249-415-11	CARBON	680	5%	1/4W	

B **B1**

REF.NO.	PART NO.	DESCRIPTION				REMARK
R4026	1-247-883-00	CARBON	150K	5%	1/4W	
R4027	1-249-429-11	CARBON	10K	5%	1/4W	
R4028	1-249-417-11	CARBON	1K	5%	1/4W	
R4029	1-249-434-11	CARBON	27K	5%	1/4W	
R4030	1-249-414-11	CARBON	560	5%	1/4W	
R4031	1-249-417-11	CARBON	1K	5%	1/4W	
R4032	1-249-424-11	CARBON	3.9K	5%	1/4W	
R4033	1-249-411-11	CARBON	330	5%	1/4W	
R4034	1-249-409-11	CARBON	220	5%	1/4W	
R4035	1-249-417-11	CARBON	1K	5%	1/4W	
R4036	1-249-421-11	CARBON	2.2K	5%	1/4W	
R4037	1-249-425-11	CARBON	4.7K	5%	1/4W	
R4038	1-249-441-11	CARBON	100K	5%	1/4W	
R4039	1-249-433-11	CARBON	22K	5%	1/4W	
R4040	1-249-441-11	CARBON	100K	5%	1/4W	
R4041	1-249-425-11	CARBON	4.7K	5%	1/4W	
R4042	1-247-895-00	CARBON	470K	5%	1/4W	
R4043	1-249-429-11	CARBON	10K	5%	1/4W	
R4045	1-249-425-11	CARBON	4.7K	5%	1/4W	
R4046	1-249-419-11	CARBON	1.5K	5%	1/4W	
R4047	1-249-437-11	CARBON	47K	5%	1/4W	

<VARIABLE RESISTOR>

RV341	1-228-996-00	RES, ADJ, CARBON 47K
RV4001	1-228-996-00	RES, ADJ, CARBON 47K

****

*A-1135-526-A B1 BOARD, COMPLETE
****

*4-376-533-01	CASE (MAIN), SHIELD
*4-376-534-01	CASE (UPPER), SHIELD
*4-376-535-01	CASE (BOTTOM), SHIELD

<FILTER>

BP3001	1-235-835-11	FILTER, BAND PASS

<CAPACITOR>

C3001	1-102-978-00	CERAMIC	220PF	5%	50V
C3002	1-102-978-00	CERAMIC	220PF	5%	50V
C3003	1-101-888-00	CERAMIC	68PF	5%	50V
C3004	1-102-816-00	CERAMIC	120PF	5%	50V
C3005	1-102-953-00	CERAMIC	18PF	5%	50V
C3006	1-102-953-00	CERAMIC	18PF	5%	50V
C3007	1-102-816-00	CERAMIC	120PF	5%	50V
C3008	1-101-888-00	CERAMIC	68PF	5%	50V
C3009	1-101-004-00	CERAMIC	0.01MF		50V
C3010	1-130-483-00	MYLAR	0.01MF	5%	50V
C3011	1-130-487-00	MYLAR	0.022MF	5%	50V
C3012	1-130-495-00	MYLAR	0.1MF	5%	50V
C3013	1-124-119-00	ELECT	330MF	20%	16V
C3014	1-124-791-11	ELECT	1MF	20%	50V
C3015	1-124-791-11	ELECT	1MF	20%	50V
C3016	1-130-491-00	MYLAR	0.047MF	5%	50V
C3017	1-136-173-00	FILM	0.47MF	5%	50V
C3018	1-101-006-00	CERAMIC	0.047MF		50V
C3019	1-130-487-00	MYLAR	0.022MF	5%	50V
C3020	1-130-487-00	MYLAR	0.022MF	5%	50V
C3021	1-102-074-00	CERAMIC	0.001MF	10%	50V
C3022	1-102-816-00	CERAMIC	120PF	5%	50V
C3023	1-102-074-00	CERAMIC	0.001MF	10%	50V

REF.NO.	PART NO.	DESCRIPTION			REMARK
C3024	1-101-004-00	CERAMIC	0.01MF		50V
C3025	1-101-004-00	CERAMIC	0.01MF		50V
C3026	1-102-942-00	CERAMIC	5PF	0.5PF	50V
C3027	1-102-944-00	CERAMIC	7PF	0.5PF	50V
C3028	1-102-944-00	CERAMIC	7PF	0.5PF	50V
C3029	1-102-944-00	CERAMIC	7PF	0.5PF	50V
C3030	1-102-944-00	CERAMIC	7PF	0.5PF	50V
C3031	1-124-963-11	ELECT	33MF	20%	16V
C3032	1-124-120-11	ELECT	220MF	20%	16V
C3034	1-101-361-00	CERAMIC	150PF	5%	50V
C3039	1-102-951-00	CERAMIC	15PF	5%	50V
C3040	1-101-361-00	CERAMIC	150PF	5%	50V
C3043	1-102-971-00	CERAMIC	82PF	5%	50V
C3044	1-124-963-11	ELECT	33MF	20%	16V
C3076	1-124-477-11	ELECT	47MF	20%	16V
C3077	1-101-361-00	CERAMIC	150PF	5%	50V
C3078	1-124-477-11	ELECT	47MF	20%	16V

<CONNECTOR>

CNB131*	1-565-486-11	CONNECTOR, BOARD TO BOARD 10P
CNB132*	1-565-486-11	CONNECTOR, BOARD TO BOARD 10P

<TRIMMER>

CT3001	1-141-181-11	CAP,TRIMMER
CT3002	1-141-181-11	CAP,TRIMMER

<DIODE>

D3001	8-719-911-19	DIODE 1SS119
D3002	8-719-911-19	DIODE 1SS119
D3003	8-719-911-19	DIODE 1SS119
D3004	8-719-911-19	DIODE 1SS119
D3005	8-719-911-19	DIODE 1SS119
D3010	8-719-911-19	DIODE 1SS119
D3011	8-719-911-19	DIODE 1SS119

<DELAY LINE>

DL3001	1-415-122-31	DELAY LINE
DL3080	1-415-613-11	DELAY LINE, Y

<IC>

IC3001	8-759-947-20	IC TDA4555-V8
IC3003	8-752-006-12	IC CX20061

<COIL>

L3001	1-404-554-11	COIL	
L3002	1-404-554-11	COIL	
L3003	1-404-539-11	COIL	
L3004	1-408-408-00	INDUCTOR	8.2UH
L3005	1-404-554-11	COIL	
L3006	1-408-429-00	INDUCTOR	470UH
L3007	1-404-495-00	COIL	
L3008	1-410-476-11	INDUCTOR	33UH
L3009	1-404-495-00	COIL	
L3010	1-408-423-00	INDUCTOR	150UH
L3012	1-408-423-00	INDUCTOR	150UH
L3013	1-410-482-31	INDUCTOR	100UH
L3093	1-408-406-00	INDUCTOR	5.6UH

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q3001	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q3002	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q3003	8-729-900-36	TRANSISTOR DTC124ES	
Q3004	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q3006	8-729-900-36	TRANSISTOR DTC124ES	
Q3007	8-729-900-36	TRANSISTOR DTC124ES	
Q3008	8-729-900-36	TRANSISTOR DTC124ES	
Q3009	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q3013	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q3020	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q3021	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q3025	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q3026	8-729-900-36	TRANSISTOR DTC124ES	
Q3027	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q3028	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q3031	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q3032	8-729-173-38	TRANSISTOR 2SA733-K	

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
R3001	1-249-418-11	CARBON	1.2K	5%	1/4W	
R3002	1-249-415-11	CARBON	680	5%	1/4W	
R3003	1-249-408-11	CARBON	180	5%	1/4W	
R3004	1-249-412-11	CARBON	390	5%	1/4W	
R3005	1-249-418-11	CARBON	1.2K	5%	1/4W	
R3006	1-249-429-11	CARBON	10K	5%	1/4W	
R3007	1-215-438-00	METAL	5.1K	1%	1/6W	
R3008	1-249-439-11	CARBON	68K	5%	1/4W	
R3009	1-249-430-11	CARBON	12K	5%	1/4W	
R3011	1-249-439-11	CARBON	68K	5%	1/4W	
R3012	1-249-414-11	CARBON	560	5%	1/4W	
R3013	1-249-433-11	CARBON	22K	5%	1/4W	
R3015	1-249-437-11	CARBON	47K	5%	1/4W	
R3017	1-249-441-11	CARBON	100K	5%	1/4W	
R3018	1-249-419-11	CARBON	1.5K	5%	1/4W	
R3019	1-249-410-11	CARBON	270	5%	1/4W	
R3020	1-249-416-11	CARBON	820	5%	1/4W	
R3021	1-249-417-11	CARBON	1K	5%	1/4W	
R3022	1-249-410-11	CARBON	270	5%	1/4W	
R3023	1-249-423-11	CARBON	3.3K	5%	1/4W	
R3024	1-249-405-11	CARBON	100	5%	1/4W	
R3025	1-249-435-11	CARBON	33K	5%	1/4W	
R3026	1-249-416-11	CARBON	820	5%	1/4W	
R3027	1-249-436-11	CARBON	39K	5%	1/4W	
R3028	1-249-419-11	CARBON	1.5K	5%	1/4W	
R3029	1-249-436-11	CARBON	39K	5%	1/4W	
R3030	1-249-435-11	CARBON	33K	5%	1/4W	
R3031	1-249-419-11	CARBON	1.5K	5%	1/4W	
R3032	1-249-414-11	CARBON	560	5%	1/4W	
R3033	1-249-435-11	CARBON	33K	5%	1/4W	
R3034	1-249-436-11	CARBON	39K	5%	1/4W	
R3035	1-249-436-11	CARBON	39K	5%	1/4W	
R3037	1-249-429-11	CARBON	10K	5%	1/4W	
R3038	1-249-429-11	CARBON	10K	5%	1/4W	
R3039	1-249-419-11	CARBON	1.5K	5%	1/4W	
R3040	1-249-421-11	CARBON	2.2K	5%	1/4W	
R3048	1-249-434-11	CARBON	27K	5%	1/4W	
R3049	1-249-405-11	CARBON	100	5%	1/4W	
R3056	1-247-893-11	CARBON	390K	5%	1/4W	
R3057	1-247-893-11	CARBON	390K	5%	1/4W	
R3058	1-249-409-11	CARBON	220	5%	1/4W	
R3061	1-249-421-11	CARBON	2.2K	5%	1/4W	
R3062	1-249-421-11	CARBON	2.2K	5%	1/4W	
R3063	1-249-401-11	CARBON	47	5%	1/4W	
R3064	1-249-433-11	CARBON	22K	5%	1/4W	
R3065	1-249-433-11	CARBON	22K	5%	1/4W	
R3071	1-249-423-11	CARBON	3.3K	5%	1/4W	
R3072	1-249-423-11	CARBON	3.3K	5%	1/4W	
R3075	1-249-437-11	CARBON	47K	5%	1/4W	
R3076	1-249-437-11	CARBON	47K	5%	1/4W	
R3077	1-249-441-11	CARBON	100K	5%	1/4W	
R3081	1-249-441-11	CARBON	100K	5%	1/4W	
R3085	1-249-417-11	CARBON	1K	5%	1/4W	
R3086	1-249-435-11	CARBON	33K	5%	1/4W	
R3087	1-249-416-11	CARBON	820	5%	1/4W	
R3088	1-249-414-11	CARBON	560	5%	1/4W	
R3089	1-249-417-11	CARBON	1K	5%	1/4W	
R3090	1-249-410-11	CARBON	270	5%	1/4W	
R3091	1-249-413-11	CARBON	470	5%	1/4W	
R3092	1-249-412-11	CARBON	390	5%	1/4W	
R3093	1-249-409-11	CARBON	220	5%	1/4W	
R3094	1-249-417-11	CARBON	1K	5%	1/4W	

<VARIABLE RESISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
RV3001	1-230-504-11	RES, ADJ, CARBON 220	

<TRANSFORMER>

REF.NO.	PART NO.	DESCRIPTION	REMARK
T3001	1-404-584-11	COIL	

<CRYSTAL>

REF.NO.	PART NO.	DESCRIPTION	REMARK
X3001	1-567-131-00	OSCILLATOR, CRYSTAL	
X3002	1-567-413-11	VIBRATOR, CRYSTAL	

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*1-627-734-11 F1 BOARD
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<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CNF62	*1-566-664-11	PIN, CONNECTOR 4P	

<SWITCH>

REF.NO.	PART NO.	DESCRIPTION	REMARK
S1601⚠	1-571-433-11	SWITCH, PUSH (AC POWER)	

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*A-1245-436-A F2 BOARD, COMPLETE
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<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
C1601⚠	1-136-519-11	FILM	0.47MF	20%	300V	
C1602⚠	1-136-518-11	FILM	0.33MF	20%	300V	
C1604⚠	1-161-964-61	CERAMIC	0.0047MF		250V	
C1605⚠	1-161-964-61	CERAMIC	0.0047MF		250V	
C1606	1-162-599-12	CERAMIC	0.0047MF		250V	
C1607	1-125-318-00	ELECT(BLOCK)	220MF	20%	400V	
C1608⚠	1-162-578-51	CERAMIC	0.0047MF	20%	400V	
C1609⚠	1-162-578-51	CERAMIC	0.0047MF	20%	400V	
C1610⚠	1-162-578-51	CERAMIC	0.0047MF	20%	400V	
C1611⚠	1-162-578-51	CERAMIC	0.0047MF	20%	400V	

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

REF.NO.	PART NO.	DESCRIPTION				REMARK
C1612	1-124-556-11	ELECT	2200MF	20%	16V	
C1613	1-124-911-95	ELECT	220MF	20%	50V	
C1614	1-123-875-11	ELECT	10MF	20%	50V	
C1615	1-124-473-95	ELECT	1000MF	20%	10V	
C1616	1-124-477-11	ELECT	47MF	20%	16V	
C1617	1-124-791-11	ELECT	1MF	20%	50V	
C1618	1-124-477-11	ELECT	47MF	20%	16V	
C1621	1-126-101-11	ELECT	100MF	20%	16V	
C1622	1-126-101-11	ELECT	100MF	20%	16V	
C1623	1-126-176-11	ELECT	220MF	20%	10V	
C1624	1-162-599-12	CERAMIC	0.0047MF		250V	
		<CONNECTOR>				
CNF20	*1-566-664-11	PIN, CONNECTOR 4P				
CNF21	*1-566-664-11	PIN, CONNECTOR 4P				
CNF22	*1-560-290-00	PLUG, CONNECTOR (2.5MM PITCH)				
CNF63	*1-564-509-11	PLUG, CONNECTOR 6P				
CNF64	*1-508-766-00	PIN, CONNECTOR (5MM PITCH) 4P				
CNF65	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P				
CNF67	*1-564-506-11	PLUG, CONNECTOR 3P				
CNF68	*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P				
CNF81	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P				
		<DIODE>				
D1601⚠	8-719-946-90	DIODE KBU4JL-6088				
D1602⚠	8-719-521-10	DIODE S1VB10-S				
D1603	8-719-911-19	DIODE 1SS119				
D1604	8-719-911-19	DIODE 1SS119				
D1605	8-719-109-97	DIODE RD6.8ES-B2				
D1606	8-719-911-19	DIODE 1SS119				
		<FUSE>				
F1601⚠	1-532-504-41	FUSE 4A/250V				
	1-533-087-00	HOLDER, FUSE; F1601				
		<IC>				
IC1601	8-759-982-13	IC RC7812FA				
IC1603	8-749-920-71	IC SI3522V				
	4-377-115-01	SPACER, MICA; IC1603				
	*4-391-704-01	HOLDER (A), TR; IC1603				
		<TRANSFORMER>				
LF1601⚠	1-424-183-11	TRANSFORMER, LINE FILTER				
LF1602⚠	1-424-183-11	TRANSFORMER, LINE FILTER				
LF1603⚠	1-421-592-21	TRANSFORMER, FERRITE				
T1601	1-449-456-11	TRANSFORMER, POWER				
		<TRANSISTOR>				
Q1601	8-729-109-53	TRANSISTOR 2SD795A-P				
Q1602	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q1603	8-729-119-78	TRANSISTOR 2SC2785-HFE				
		<RESISTOR>				
R1603⚠	1-205-949-11	WIREWOUND	1.8	5%	10W	F
R1604⚠	1-244-945-91	CARBON	1M	5%	1/2W	
R1606⚠	1-247-289-11	CARBON	8.2M	5%	1W	
R1607⚠	1-249-377-51	CARBON	0.47	5%	1/4W	F
R1608⚠	1-249-377-51	CARBON	0.47	5%	1/4W	F

REF.NO.	PART NO.	DESCRIPTION				REMARK
R1609⚠	1-249-377-51	CARBON	0.47	5%	1/4W	F
R1610	1-249-423-11	CARBON	3.3K	5%	1/4W	
R1611	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1612	1-249-423-11	CARBON	3.3K	5%	1/4W	
R1613	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1615	1-249-421-11	CARBON	2.2K	5%	1/4W	
R1623⚠	1-205-949-11	WIREWOUND	1.8	5%	10W	F
		<RELAY>				
RY1601⚠	1-515-579-11	RELAY				
		<THERMISTOR>				
THP601⚠	1-808-059-31	THERMISTOR, POSITIVE				

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*A-1275-093-A Q BOARD, COMPLETE
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<CAPACITOR>

C1301	1-131-381-00	TANTALUM	47MF	10%	10V
C1302	1-101-004-00	CERAMIC	0.01MF		50V
C1303	1-126-101-11	ELECT	100MF	20%	16V
C1304	1-101-004-00	CERAMIC	0.01MF		50V
C1305	1-131-381-00	TANTALUM	47MF	10%	10V
C1306	1-101-004-00	CERAMIC	0.01MF		50V
C1307	1-131-377-00	TANTALUM	10MF	10%	10V
C1308	1-101-004-00	CERAMIC	0.01MF		50V
C1309	1-131-377-00	TANTALUM	10MF	10%	10V
C1310	1-101-004-00	CERAMIC	0.01MF		50V
C1311	1-126-101-11	ELECT	100MF	20%	16V
C1312	1-101-004-00	CERAMIC	0.01MF		50V
C1313	1-131-381-00	TANTALUM	47MF	10%	10V
C1314	1-101-004-00	CERAMIC	0.01MF		50V
C1315	1-123-875-11	ELECT	10MF	20%	50V
C1316	1-123-875-11	ELECT	10MF	20%	50V
C1317	1-101-004-00	CERAMIC	0.01MF		50V
C1318	1-101-004-00	CERAMIC	0.01MF		50V
C1319	1-101-004-00	CERAMIC	0.01MF		50V
C1320	1-123-875-11	ELECT	10MF	20%	50V
C1321	1-123-875-11	ELECT	10MF	20%	50V
C1322	1-101-004-00	CERAMIC	0.01MF		50V
C1323	1-101-004-00	CERAMIC	0.01MF		50V
C1324	1-101-004-00	CERAMIC	0.01MF		50V
C1325	1-123-875-11	ELECT	10MF	20%	50V
C1326	1-123-875-11	ELECT	10MF	20%	50V
C1327	1-101-004-00	CERAMIC	0.01MF		50V
C1328	1-101-004-00	CERAMIC	0.01MF		50V
C1329	1-101-004-00	CERAMIC	0.01MF		50V
C1336	1-131-377-00	TANTALUM	10MF	10%	10V
C1337	1-101-004-00	CERAMIC	0.01MF		50V
C1338	1-131-377-00	TANTALUM	10MF	10%	10V
C1339	1-101-004-00	CERAMIC	0.01MF		50V
C1340	1-123-875-11	ELECT	10MF	20%	50V
C1343	1-101-004-00	CERAMIC	0.01MF		50V
C1344	1-101-004-00	CERAMIC	0.01MF		50V
C1345	1-101-004-00	CERAMIC	0.01MF		50V
C1348	1-101-004-00	CERAMIC	0.01MF		50V
C1349	1-101-004-00	CERAMIC	0.01MF		50V
C1350	1-101-004-00	CERAMIC	0.01MF		50V

Q

REF.NO.	PART NO.	DESCRIPTION			REMARK
C1353	1-101-004-00	CERAMIC	0.01MF		50V
C1354	1-101-004-00	CERAMIC	0.01MF		50V
C1355	1-101-004-00	CERAMIC	0.01MF		50V
C1356	1-101-004-00	CERAMIC	0.01MF		50V
C1357	1-101-004-00	CERAMIC	0.01MF		50V
C1358	1-101-004-00	CERAMIC	0.01MF		50V
C1359	1-101-004-00	CERAMIC	0.01MF		50V
C1360	1-101-004-00	CERAMIC	0.01MF		50V
C1361	1-130-490-11	MYLAR	0.039MF	5%	50V
C1362	1-124-925-11	ELECT	2.2MF	20%	50V
C1364	1-102-074-00	CERAMIC	0.001MF	10%	50V
C1365	1-102-947-00	CERAMIC	10PF	0.5PF	50V
C1366	1-102-973-00	CERAMIC	100PF	5%	50V
C1367	1-102-973-00	CERAMIC	100PF	5%	50V
C1368	1-102-973-00	CERAMIC	100PF	5%	50V
C1369	1-102-973-00	CERAMIC	100PF	5%	50V
C1370	1-101-004-00	CERAMIC	0.01MF		50V
C1371	1-131-377-00	TANTALUM	10MF	10%	10V
C1372	1-101-004-00	CERAMIC	0.01MF		50V
C1373	1-101-004-00	CERAMIC	0.01MF		50V
C1374	1-124-963-11	ELECT	33MF	20%	16V
C1375	1-124-963-11	ELECT	33MF	20%	16V
C1376	1-124-963-11	ELECT	33MF	20%	16V
C1377	1-123-875-11	ELECT	10MF	20%	50V
C1385	1-123-875-11	ELECT	10MF	20%	50V
C1389	1-130-480-00	MYLAR	0.0056MF	5%	50V
C1390	1-124-791-11	ELECT	1MF	20%	50V

<CONNECTOR>

CNQ43	*1-565-494-11	CONNECTOR, BOARD TO BOARD 18P
CNQ44	*1-565-494-11	CONNECTOR, BOARD TO BOARD 18P

<DIODE>

D1301	8-713-300-57	DIODE 1T33

<FILTER>

FL1301	1-236-164-11	ENCAPSULATED COMPONENT
FL1302	1-236-129-11	ENCAPSULATED COMPONENT
FL1303	1-236-164-11	ENCAPSULATED COMPONENT
FL1304	1-236-164-11	ENCAPSULATED COMPONENT
FL1305	1-236-071-11	ENCAPSULATED COMPONENT
FL1306	1-236-071-11	ENCAPSULATED COMPONENT
FL1307	1-236-129-11	ENCAPSULATED COMPONENT
FL1308	1-236-129-11	ENCAPSULATED COMPONENT
FL1309	1-236-164-11	ENCAPSULATED COMPONENT
FL1310	1-236-129-11	ENCAPSULATED COMPONENT
FL1311	1-236-164-11	ENCAPSULATED COMPONENT
FL1312	1-236-164-11	ENCAPSULATED COMPONENT
FL1313	1-236-164-11	ENCAPSULATED COMPONENT
FL1314	1-236-164-11	ENCAPSULATED COMPONENT
FL1315	1-236-129-11	ENCAPSULATED COMPONENT
FL1320	1-236-304-11	FILTER, LOW PASS
FL1321	1-[illegible]-304-11	FILTER, LOW PASS
FL1322	1[illegible]304-11	FILTER, LOW PASS
FL1323	1[illegible]303-11	FILTER, LOW PASS
FL1324	1[illegible]303-11	FILTER, LOW PASS
FL1325	1-236-303-11	FILTER, LOW PASS

REF.NO.	PART NO.	DESCRIPTION			REMARK

<IC>

IC1301	8-752-032-55	IC CXA1096M
IC1302	8-752-032-55	IC CXA1096M
IC1303	8-752-032-55	IC CXA1096M
IC1304	8-752-328-75	IC CXD2001Q
IC1305	8-752-332-15	IC CXK1206M
IC1306	8-752-332-15	IC CXK1206M
IC1307	8-752-328-75	IC CXD2001Q
IC1308	8-752-332-15	IC CXK1206M
IC1309	8-752-332-15	IC CXK1206M
IC1310	8-752-328-75	IC CXD2001Q
IC1311	8-752-332-15	IC CXK1206M
IC1312	8-752-332-15	IC CXK1206M
IC1314	8-752-328-71	IC CXD2000Q
IC1315	8-759-908-15	IC TL431CLP
IC1316	8-759-947-14	IC 74AC04PC
IC1317	8-752-032-93	IC CXA1260Q-Z
IC1321	8-759-205-06	IC TC74HC74F
IC1322	8-759-011-65	IC MC74HC4053F

<COIL>

L1304	1-410-470-11	INDUCTOR	10UH
L1305	1-408-397-00	INDUCTOR	1UH
L1306	1-408-397-00	INDUCTOR	1UH
L1307	1-410-470-11	INDUCTOR	10UH
L1308	1-408-397-00	INDUCTOR	1UH
L1312	1-404-608-11	COIL	

<TRANSISTOR>

Q1301	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q1302	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q1303	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q1305	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q1306	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q1307	8-729-119-76	TRANSISTOR 2SA1175-HFE
Q1308	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q1315	8-729-119-78	TRANSISTOR 2SC2785-HFE

<RESISTOR>

R1301	1-249-408-11	CARBON	180	5%	1/4W
R1302	1-249-408-11	CARBON	180	5%	1/4W
R1303	1-249-408-11	CARBON	180	5%	1/4W
R1304	1-249-420-11	CARBON	1.8K	5%	1/4W
R1305	1-249-420-11	CARBON	1.8K	5%	1/4W
R1306	1-249-420-11	CARBON	1.8K	5%	1/4W
R1307	1-249-413-11	CARBON	470	5%	1/4W
R1308	1-249-421-11	CARBON	2.2K	5%	1/4W
R1309	1-249-423-11	CARBON	3.3K	5%	1/4W
R1310	1-249-423-11	CARBON	3.3K	5%	1/4W
R1311	1-249-423-11	CARBON	3.3K	5%	1/4W
R1312	1-249-414-11	CARBON	560	5%	1/4W
R1313	1-249-414-11	CARBON	560	5%	1/4W
R1314	1-249-414-11	CARBON	560	5%	1/4W
R1315	1-249-419-11	CARBON	1.5K	5%	1/4W
R1316	1-249-419-11	CARBON	1.5K	5%	1/4W
R1317	1-247-891-00	CARBON	330K	5%	1/4W
R1318	1-249-417-11	CARBON	1K	5%	1/4W
R1319	1-249-441-11	CARBON	100K	5%	1/4W
R1320	1-249-415-11	CARBON	680	5%	1/4W
R1321	1-249-417-11	CARBON	1K	5%	1/4W
R1322	1-249-417-11	CARBON	1K	5%	1/4W
R1323	1-249-417-11	CARBON	1K	5%	1/4W

REF.NO.	PART NO.	DESCRIPTION			REMARK
R1324	1-249-417-11	CARBON	1K	5%	1/4W
R1325	1-249-409-11	CARBON	220	5%	1/4W
R1326	1-249-409-11	CARBON	220	5%	1/4W
R1327	1-249-409-11	CARBON	220	5%	1/4W
R1328	1-249-408-11	CARBON	180	5%	1/4W
R1329	1-249-397-11	CARBON	22	5%	1/4W
R1330	1-249-417-11	CARBON	1K	5%	1/4W
R1331	1-247-735-11	CARBON	47	5%	1/2W
R1332	1-249-397-11	CARBON	22	5%	1/4W
R1333	1-249-413-11	CARBON	470	5%	1/4W
R1334	1-249-423-11	CARBON	3.3K	5%	1/4W
R1335	1-249-421-11	CARBON	2.2K	5%	1/4W
R1336	1-249-409-11	CARBON	220	5%	1/4W
R1337	1-249-409-11	CARBON	220	5%	1/4W
R1359	1-249-403-11	CARBON	68	5%	1/4W
R1360	1-249-429-11	CARBON	10K	5%	1/4W
R1361	1-249-429-11	CARBON	10K	5%	1/4W
R1368	1-249-417-11	CARBON	1K	5%	1/4W
R1369	1-249-414-11	CARBON	560	5%	1/4W
R1370	1-249-409-11	CARBON	220	5%	1/4W
R1371	1-247-887-00	CARBON	220K	5%	1/4W
R1372	1-249-441-11	CARBON	100K	5%	1/4W
R1373	1-249-417-11	CARBON	1K	5%	1/4W
R1374	1-249-417-11	CARBON	1K	5%	1/4W
R1375	1-247-887-00	CARBON	220K	5%	1/4W
R1376	1-247-887-00	CARBON	220K	5%	1/4W
R1377	1-247-887-00	CARBON	220K	5%	1/4W

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*A-1296-497-A A BOARD, COMPLETE
****

1-464-964-21 IF BLOCK (IFG-5.5S)

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
C101	1-126-233-11	ELECT	22MF	20%	50V	
C102	1-126-103-11	ELECT	470MF	20%	16V	
C103	1-130-475-00	MYLAR	0.0022MF	5%	50V	
C104	1-124-477-11	ELECT	47MF	20%	16V	
C105	1-101-003-00	CERAMIC	0.0047MF		50V	
C106	1-126-233-11	ELECT	22MF	20%	50V	
C107	1-136-177-00	FILM	1MF	5%	50V	
C108	1-101-004-00	CERAMIC	0.01MF		50V	
C109	1-101-003-00	CERAMIC	0.0047MF		50V	
C110	1-101-003-00	CERAMIC	0.0047MF		50V	
C111	1-124-477-11	ELECT	47MF	20%	16V	
C112	1-101-003-00	CERAMIC	0.0047MF		50V	
C113	1-101-004-00	CERAMIC	0.01MF		50V	
C115	1-123-875-11	ELECT	10MF	20%	50V	
C116	1-123-875-11	ELECT	10MF	20%	50V	
C117	1-123-875-11	ELECT	10MF	20%	50V	
C118	1-123-875-11	ELECT	10MF	20%	50V	
C119	1-136-161-00	FILM	0.047MF	5%	50V	
C120	1-102-965-00	CERAMIC	39PF	5%	50V	
C121	1-124-477-11	ELECT	47MF	20%	16V	
C122	1-124-477-11	ELECT	47MF	20%	16V	
C123	1-101-004-00	CERAMIC	0.01MF		50V	
C124	1-124-477-11	ELECT	47MF	20%	16V	
C127	1-124-477-11	ELECT	47MF	20%	16V	
C128	1-124-477-11	ELECT	47MF	20%	16V	
C129	1-124-477-11	ELECT	47MF	20%	16V	
C130	1-126-101-11	ELECT	100MF	20%	16V	
C132	1-101-888-00	CERAMIC	68PF	5%	50V	
C133	1-102-973-00	CERAMIC	100PF	5%	50V	
C134	1-102-963-00	CERAMIC	33PF	5%	50V	
C135	1-124-477-11	ELECT	47MF	20%	16V	
C136	1-124-477-11	ELECT	47MF	20%	16V	
C137	1-124-477-11	ELECT	47MF	20%	16V	
C138	1-136-165-00	FILM	0.1MF	5%	50V	
C141	1-102-822-00	CERAMIC	390PF	5%	50V	
C142	1-101-361-00	CERAMIC	150PF	5%	50V	
C143	1-102-973-00	CERAMIC	100PF	5%	50V	
C145	1-101-888-00	CERAMIC	68PF	5%	50V	
C149	1-102-114-00	CERAMIC	470PF	10%	50V	
C150	1-102-114-00	CERAMIC	470PF	10%	50V	
C151	1-124-477-11	ELECT	47MF	20%	16V	
C152	1-136-161-00	FILM	0.047MF	5%	50V	
C153	1-101-004-00	CERAMIC	0.01MF		50V	
C154	1-101-004-00	CERAMIC	0.01MF		50V	
C155	1-124-477-11	ELECT	47MF	20%	16V	

<FILTER>

REF.NO.	PART NO.	DESCRIPTION
CD101	1-404-684-11	DISCRIMINATOR, CERAMIC
CF101	1-567-569-11	FILTER, CERAMIC

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION
CNA11	*1-566-659-11	CONNECTOR, HINGE (SOCKET) 18P
CNA18	*1-565-503-11	CONNECTOR, BOARD TO BOARD 12P

<DIODE>

REF.NO.	PART NO.	DESCRIPTION
D101	8-719-016-42	DIODE MC932
D108	8-719-911-19	DIODE 1SS119
D109	8-719-911-19	DIODE 1SS119

<IC>

REF.NO.	PART NO.	DESCRIPTION
IC101	8-759-208-08	IC TC4052BPHB
IC102	8-759-946-32	IC TEA2014A
IC103	8-759-978-65	IC SAB3036
IC105	8-759-003-90	IC TBA129

<COIL>

REF.NO.	PART NO.	DESCRIPTION	
L100	1-410-116-11	INDUCTOR	560UH
L101	1-408-225-00	INDUCTOR	3.3UH
L102	1-410-470-11	INDUCTOR	10UH
L103	1-408-408-00	INDUCTOR	8.2UH
L104	1-410-476-11	INDUCTOR	33UH
L106	1-410-471-11	INDUCTOR	12UH
L108	1-410-471-11	INDUCTOR	12UH
L109	1-408-422-00	INDUCTOR	120UH

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION
Q106	8-729-900-65	TRANSISTOR DTA144ES
Q107	8-729-900-89	TRANSISTOR DTC144ES
Q109	8-729-901-59	TRANSISTOR BF199
Q110	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q111	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q112	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q113	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q114	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q115	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q116	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q118	8-729-173-38	TRANSISTOR 2SA733-K

A **C**

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

NO.	PART NO.	DESCRIPTION				REMARK
		<RESISTOR>				
R102	1-249-429-11	CARBON	10K	5%	1/4W	
R103	1-249-429-11	CARBON	10K	5%	1/4W	
R104	1-249-437-11	CARBON	47K	5%	1/4W	
R105	1-249-425-11	CARBON	4.7K	5%	1/4W	
R106	1-249-425-11	CARBON	4.7K	5%	1/4W	
R107	1-249-432-11	CARBON	18K	5%	1/4W	
R109	1-249-441-11	CARBON	100K	5%	1/4W	
R110	1-249-429-11	CARBON	10K	5%	1/4W	
R111	1-249-423-11	CARBON	3.3K	5%	1/4W	
R112	1-249-425-11	CARBON	4.7K	5%	1/4W	
R113	1-[illegible]9-425-11	CARBON	4.7K	5%	1/4W	
R114	1-[illegible]13-11	CARBON	470	5%	1/4W	
R115	1-2[illegible]05-11	CARBON	100	5%	1/4W	
R118	1-249-429-11	CARBON	10K	5%	1/4W	
R121	1-249-429-11	CARBON	10K	5%	1/4W	
R122	1-249-428-11	CARBON	8.2K	5%	1/4W	
R123	1-249-431-11	CARBON	15K	5%	1/4W	
R124	1-249-431-11	CARBON	15K	5%	1/4W	
R125	1-249-431-11	CARBON	15K	5%	1/4W	
R126	1-249-431-11	CARBON	15K	5%	1/4W	
R127	1-249-431-11	CARBON	15K	5%	1/4W	
R128	1-249-413-11	CARBON	470	5%	1/4W	
R129	1-249-421-11	CARBON	2.2K	5%	1/4W	
R130	1-249-421-11	CARBON	2.2K	5%	1/4W	
R131	1-249-422-11	CARBON	2.7K	5%	1/4W	
R133	1-249-422-11	CARBON	2.7K	5%	1/4W	
R134	1-249-422-11	CARBON	2.7K	5%	1/4W	
R136	1-249-413-11	CARBON	470	5%	1/4W	
R137	1-249-405-11	CARBON	100	5%	1/4W	
R138	1-249-413-11	CARBON	470	5%	1/4W	
R139	1-249-413-11	CARBON	470	5%	1/4W	
R140	1-249-418-11	CARBON	1.2K	5%	1/4W	
R141	1-249-413-11	CARBON	470	5%	1/4W	
R142	1-249-413-11	CARBON	470	5%	1/4W	
R143	1-249-416-11	CARBON	820	5%	1/4W	
R144	1-249-417-11	CARBON	1K	5%	1/4W	
R145	1-249-413-11	CARBON	470	5%	1/4W	
R146	1-249-421-11	CARBON	2.2K	5%	1/4W	
R147	1-249-429-11	CARBON	10K	5%	1/4W	
R152	1-249-417-11	CARBON	1K	5%	1/4W	
R153	1-249-417-11	CARBON	1K	5%	1/4W	
R154	1-249-414-11	CARBON	560	5%	1/4W	
R155	1-249-417-11	CARBON	1K	5%	1/4W	
R157	1-249-417-11	CARBON	1K	5%	1/4W	
R158	1-249-409-11	CARBON	220	5%	1/4W	
R159	1-249-409-11	CARBON	220	5%	1/4W	
R160	1-249-396-11	CARBON	18	5%	1/4W	
R164	1-249-401-11	CARBON	47	5%	1/4W	
R165	1-249-401-11	CARBON	47	5%	1/4W	
R166	1-249-431-11	CARBON	15K	5%	1/4W	
		<IF BLOCK>				
SIF101	1-464-963-21	IF BLOCK (IFG-334F)				
VIF101	1-464-962-21	IF BLOCK (IFG-389FS)				
		<TRANSFORMER>				
T101	1-404-806-11	COIL				
T102	1-404-493-00	COIL				

REF.NO.	PART NO.	DESCRIPTION				REMARK
		<TUNER>				
TU101⚠	1-465-059-11	TUNER, ET (UV-616S)				
		<CRYSTAL>				
X101	1-527-726-00	VIBRATOR, CRYSTAL				

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	*A-1330-901-A	C BOARD, COMPLETE *****************				
	*4-379-160-01	COVER (REAR LID), CV				
	*4-379-167-01	COVER (MAIN), CV				
		<CAPACITOR>				
C701	1-102-978-00	CERAMIC	220PF	5%	50V	
C702	1-102-976-00	CERAMIC	180PF	5%	50V	
C703	1-102-976-00	CERAMIC	180PF	5%	50V	
C704	1-123-875-11	ELECT	10MF	20%	50V	
C705	1-101-003-00	CERAMIC	0.0047MF		50V	
C709	1-136-601-11	FILM	0.01MF	10%	630V	
C711	1-136-601-11	FILM	0.01MF	10%	630V	
C712	1-162-622-11	CERAMIC	330PF	10%	400V	
C713	1-162-116-00	CERAMIC	680PF	10%	2KV	
C714	1-123-946-00	ELECT	4.7MF	20%	250V	
C715	1-102-822-00	CERAMIC	390PF	5%	50V	
C716	1-102-980-00	CERAMIC	270PF	5%	50V	
C717	1-102-822-00	CERAMIC	390PF	5%	50V	
C718	1-102-976-00	CERAMIC	180PF	5%	50V	
C719	1-162-129-00	CERAMIC	150PF	10%	2KV	
C720	1-162-134-11	CERAMIC	470PF	10%	2KV	
		<CONNECTOR>				
CNC33	*1-564-509-11	PLUG, CONNECTOR 6P				
CNC71	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P				
CNC83	*1-508-768-00	PIN, CONNECTOR (5MM PITCH) 6P				
		<DIODE>				
D701	8-719-911-19	DIODE 1SS119				
D702	8-719-911-19	DIODE 1SS119				
D703	8-719-911-19	DIODE 1SS119				
		<JACK>				
J701	1-526-798-51	SOCKET, PICTURE TUBE				
		<COIL>				
L707	1-410-478-11	INDUCTOR	47UH			
		<TRANSISTOR>				
Q701	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q702	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q703	8-729-119-78	TRANSISTOR 2SC2785-HFE				
Q704	8-729-326-11	TRANSISTOR 2SC2611				
Q705	8-729-326-11	TRANSISTOR 2SC2611				
Q706	8-729-326-11	TRANSISTOR 2SC2611				

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
R701	1-249-406-11	CARBON	120	5%	1/4W	
R702	1-249-409-11	CARBON	220	5%	1/4W	
R703	1-249-409-11	CARBON	220	5%	1/4W	
R704	1-249-406-11	CARBON	120	5%	1/4W	
R705	1-249-406-11	CARBON	120	5%	1/4W	
R706	1-249-406-11	CARBON	120	5%	1/4W	
R707	1-249-418-11	CARBON	1.2K	5%	1/4W	
R708	1-249-409-11	CARBON	220	5%	1/4W	
R709	1-249-409-11	CARBON	220	5%	1/4W	
R710	1-249-409-11	CARBON	220	5%	1/4W	
R711	1-249-409-11	CARBON	220	5%	1/4W	
R712	1-249-409-11	CARBON	220	5%	1/4W	
R713	1-249-418-11	CARBON	1.2K	5%	1/4W	
R714	1-249-418-11	CARBON	1.2K	5%	1/4W	
R715	1-249-418-11	CARBON	1.2K	5%	1/4W	
R716	1-249-418-11	CARBON	1.2K	5%	1/4W	
R717	1-249-418-11	CARBON	1.2K	5%	1/4W	
R718	1-249-426-11	CARBON	5.6K	5%	1/4W	
R719	1-249-426-11	CARBON	5.6K	5%	1/4W	
R721	1-215-923-00	METAL OXIDE	10K	5%	3W	F
R722	1-215-923-00	METAL OXIDE	10K	5%	3W	F
R723	1-215-923-00	METAL OXIDE	10K	5%	3W	F
R724	1-215-923-00	METAL OXIDE	10K	5%	3W	F
R725	1-215-923-00	METAL OXIDE	10K	5%	3W	F
R726	1-215-923-00	METAL OXIDE	10K	5%	3W	F
R727	1-202-818-00	SOLID	1K	10%	1/2W	
R728	1-202-818-00	SOLID	1K	10%	1/2W	
R729	1-202-818-00	SOLID	1K	10%	1/2W	
R730	1-249-401-11	CARBON	47	5%	1/4W	
R733	1-202-838-00	SOLID	100K	10%	1/2W	
R734	1-216-349-00	METAL OXIDE	1	5%	1W	F
R736	1-202-842-11	SOLID	220K	10%	1/2W	
R737	1-202-842-11	SOLID	220K	10%	1/2W	
R738	1-249-405-11	CARBON	100	5%	1/4W	
R739	1-202-838-00	SOLID	100K	10%	1/2W	
R740	1-202-848-00	SOLID	680K	10%	1/2W	
R741	1-202-842-11	SOLID	220K	10%	1/2W	

<VARIABLE RESISTOR>

REF.NO.	PART NO.	DESCRIPTION
RV701	1-228-989-00	RES, ADJ, CARBON 470
RV702	1-228-989-00	RES, ADJ, CARBON 470
RV703	1-228-993-00	RES, ADJ, CARBON 4.7K
RV704	1-228-721-00	RES, ADJ, CERAMIC CARBON 2.2K
RV705	1-228-721-00	RES, ADJ, CERAMIC CARBON 2.2K
RV706	1-228-721-00	RES, ADJ, CERAMIC CARBON 2.2K
RV707	1-230-619-11	RES, ADJ, METAL GLAZE 110M
RV708	1-230-641-11	RES, ADJ, METAL GLAZE 2.2M

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*A-1342-071-A VM BOARD, COMPLETE
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<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
C751	1-102-973-00	CERAMIC	100PF	5%	50V	
C752	1-130-474-00	MYLAR	0.0018MF	5%	50V	
C754	1-126-101-11	ELECT	100MF	20%	16V	
C756	1-130-483-00	MYLAR	0.01MF	5%	50V	
C758	1-130-483-00	MYLAR	0.01MF	5%	50V	
C760	1-124-925-11	ELECT	2.2MF	20%	50V	
C761	1-106-220-00	MYLAR	0.1MF	10%	100V	
C763	1-124-122-11	ELECT	100MF	20%	50V	
C764	1-126-176-11	ELECT	220MF	20%	6.3V	
C765	1-101-006-00	CERAMIC	0.047MF		50V	
C766	1-124-122-11	ELECT	100MF	20%	50V	
C767	1-102-125-00	CERAMIC	0.0047MF	10%	50V	

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION
CNM83	*1-564-506-11	PLUG, CONNECTOR 3P
CNM85	*1-564-507-11	PLUG, CONNECTOR 4P

<COIL>

REF.NO.	PART NO.	DESCRIPTION	
L751	1-410-468-11	INDUCTOR	6.8UH
L752	1-410-482-31	INDUCTOR	100UH

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION
Q751	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q752	8-729-378-84	TRANSISTOR 2SD788-5
Q753	8-729-188-23	TRANSISTOR 2SD882-P
Q754	8-729-177-22	TRANSISTOR 2SB772-Q
Q755	8-729-188-23	TRANSISTOR 2SD882-P
Q756	8-729-231-60	TRANSISTOR 2SD1406-YGR
Q757	8-729-119-78	TRANSISTOR 2SC2785-HFE

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
R751	1-249-409-11	CARBON	220	5%	1/4W	
R752	1-249-409-11	CARBON	220	5%	1/4W	
R753	1-249-415-11	CARBON	680	5%	1/4W	
R754	1-249-411-11	CARBON	330	5%	1/4W	
R755	1-216-431-11	METAL OXIDE	560	5%	1W	F
R756	1-249-414-11	CARBON	560	5%	1/4W	
R757	1-249-426-11	CARBON	5.6K	5%	1/4W	
R758	1-249-435-11	CARBON	33K	5%	1/4W	
R759	1-249-393-11	CARBON	10	5%	1/4W	F
R760	1-216-449-11	METAL OXIDE	56	5%	2W	F
R764	1-249-409-11	CARBON	220	5%	1/4W	
R765	1-249-381-11	CARBON	1	5%	1/4W	F
R766	1-249-426-11	CARBON	5.6K	5%	1/4W	
R767	1-249-417-11	CARBON	1K	5%	1/4W	
R768	1-249-426-11	CARBON	5.6K	5%	1/4W	
R769	1-249-409-11	CARBON	220	5%	1/4W	
R771	1-249-423-11	CARBON	3.3K	5%	1/4W	F
R772	1-249-391-11	CARBON	6.8	5%	1/4W	F
R773	1-249-396-11	CARBON	18	5%	1/4W	
R776	1-249-381-11	CARBON	1	5%	1/4W	F

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*A-1345-798-A D BOARD, COMPLETE
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PART NO.	DESCRIPTION
*4-341-736-01	BRACKET, FOCUS VR
*4-341-751-01	EYELET (EY1,EY2,EY3,EY4,EY5,EY6)
*4-341-752-01	EYELET (EY9,EY10,EY11,EY12,EY13,EY14, EY15,EY16,EY17,EY18,EY19)

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
C501	1-124-122-11	ELECT	100MF	20%	50V	
C503	1-102-123-00	CERAMIC	0.0033MF	10%	50V	
C504	1-124-120-11	ELECT	220MF	20%	25V	
C505	1-124-902-00	ELECT	0.47MF	20%	50V	
C506	1-102-112-00	CERAMIC	330PF	10%	50V	

D

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Ne les remplacer que par une piece portant le numero specifie.

REF.NO.	PART NO.	DESCRIPTION			REMARK
C507	1-136-169-00	FILM	0.22MF	5%	50V
C508	1-130-492-11	MYLAR	0.056MF	5%	50V
C509	1-126-101-11	ELECT	100MF	20%	16V
C510	1-106-367-00	MYLAR	0.01MF	10%	100V
C512	1-130-475-00	MYLAR	0.0022MF	5%	50V
C513	1-124-791-11	ELECT	1MF	20%	50V
C515	1-102-116-00	CERAMIC	680PF	10%	50V
C516	1-124-791-11	ELECT	1MF	20%	50V
C517	1-124-902-00	ELECT	0.47MF	20%	50V
C518	1-136-175-00	FILM	0.68MF	5%	50V
C519	1-124-637-11	ELECT	1000MF	20%	50V
C520	1-124-912-95	ELECT	330MF	20%	50V
C521	1-106-391-12	MYLAR	0.1MF	10%	200V
C522	1-106-381-12	MYLAR	0.039MF	10%	200V
C523	1-106-387-00	MYLAR	0.068MF	10%	200V
C524	1-123-268-11	ELECT	3.3MF	20%	160V
C525	1-102-820-00	CERAMIC	330PF	5%	50V
C526	1-123-875-11	ELECT	10MF	20%	50V
C527	1-102-978-00	CERAMIC	220PF	5%	50V
C528	1-124-477-11	ELECT	47MF	20%	16V
C530	1-124-122-11	ELECT	100MF	20%	50V
C531	1-106-387-00	MYLAR	0.068MF	10%	200V
C539	1-102-233-00	CERAMIC	33PF	10%	500V
C540	1-130-479-00	MYLAR	0.0047MF	5%	50V
C541	1-124-902-00	ELECT	0.47MF	20%	50V
C542	1-106-220-00	MYLAR	0.1MF	10%	100V
C543	1-106-375-12	MYLAR	0.022MF	10%	100V
C544	1-102-244-00	CERAMIC	220PF	10%	500V
C545	1-124-925-11	ELECT	2.2MF	20%	50V
C546	1-123-875-11	ELECT	10MF	20%	50V
C547	1-130-728-00	FILM	0.0022MF	5%	50V
C548	1-102-820-00	CERAMIC	330PF	5%	50V
C549	1-124-122-11	ELECT	100MF	20%	50V
C551	1-124-122-11	ELECT	100MF	20%	50V
C552	1-124-464-11	ELECT	0.22MF	20%	50V
C553	1-126-101-11	ELECT	100MF	20%	16V
C554	1-124-927-11	ELECT	4.7MF	20%	50V
C556	1-123-875-11	ELECT	10MF	20%	50V
C557	1-126-101-11	ELECT	100MF	20%	16V
C558	1-123-875-11	ELECT	10MF	20%	50V
C560	1-130-477-00	MYLAR	0.0033MF	5%	50V
C561	1-102-112-00	CERAMIC	330PF	10%	50V
C562	1-130-483-00	MYLAR	0.01MF	5%	50V
C801	1-123-875-11	ELECT	10MF	20%	50V
C802	1-124-925-11	ELECT	2.2MF	20%	50V
C803	1-124-791-11	ELECT	1MF	20%	50V
C804	1-124-910-11	ELECT	47MF	20%	50V
C805	1-106-343-00	MYLAR	0.001MF	10%	200V
C806	1-124-122-11	ELECT	100MF	20%	50V
C807	1-130-495-00	MYLAR	0.1MF	5%	50V
C808	1-124-791-11	ELECT	1MF	20%	50V
C809	1-130-471-00	MYLAR	0.001MF	5%	50V
C810	1-126-101-11	ELECT	100MF	20%	16V
C814	1-162-134-11	CERAMIC	470PF	10%	2KV
C815	1-124-927-11	ELECT	4.7MF	20%	50V
C816	1-123-024-21	ELECT	33MF		160V
C817	1-125-319-00	ELECT(BLOCK)	330MF	20%	160V
C819	1-102-212-00	CERAMIC	820PF	10%	500V
C820	1-106-383-00	MYLAR	0.047MF	10%	200V
C822	⚠1-162-116-51	CERAMIC	680PF	10%	2KV
C823	⚠1-162-116-51	CERAMIC	680PF	10%	2KV
C824	1-106-345-00	MYLAR	0.0012MF		200V
C825	1-102-030-00	CERAMIC	330PF	10%	500V
C826	1-129-723-00	FILM	0.056MF	5%	630V
C827	1-130-660-11	FILM	0.02MF	3%	1.6KV
C828	1-136-126-00	FILM	0.82MF	5%	400V
C829	1-106-351-00	MYLAR	0.0022MF		200V
C830	1-136-598-11	FILM	3MF	5%	200V
C831	1-130-797-11	FILM	0.68MF	10%	250V
C832	1-106-395-00	MYLAR	0.15MF	10%	200V
C834	1-124-637-11	ELECT	1000MF	20%	50V
C835	1-102-030-00	CERAMIC	330PF	10%	500V
C836	1-102-030-00	CERAMIC	330PF	10%	500V
C837	1-124-480-95	ELECT	470MF	20%	25V
C838	1-106-367-00	MYLAR	0.01MF	10%	200V
C839	1-124-929-11	ELECT	22MF	20%	100V
C840	1-162-114-00	CERAMIC	0.0047MF		2KV
C841	1-106-383-00	MYLAR	0.047MF	10%	200V
C842	1-130-483-00	MYLAR	0.01MF	5%	50V
C843	1-130-479-00	MYLAR	0.0047MF	5%	50V
C844	1-124-910-11	ELECT	47MF	20%	50V
C845	1-126-233-11	ELECT	22MF	20%	50V
C846	1-101-810-00	CERAMIC	100PF	5%	500V
C847	1-162-318-11	CERAMIC	0.001MF	10%	500V
C849	1-130-485-00	MYLAR	0.015MF	5%	50V
C850	1-102-030-00	CERAMIC	330PF	10%	500V
C861	1-124-791-11	ELECT	1MF	20%	50V
C862	1-130-484-00	MYLAR	0.012MF	5%	50V
C863	1-106-351-00	MYLAR	0.0022MF	10%	100V
C864	1-106-343-00	MYLAR	0.001MF	10%	100V
C865	1-124-910-11	ELECT	47MF	20%	50V
C866	1-106-379-12	MYLAR	0.033MF	10%	200V
C867	1-124-902-00	ELECT	0.47MF	20%	50V
C868	1-106-383-00	MYLAR	0.047MF	10%	100V
C869	1-106-375-12	MYLAR	0.022MF	10%	200V

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION
CN801	*1-508-767-00	PIN, CONNECTOR (5MM PITCH) 5P
CND81	*1-564-513-11	PLUG, CONNECTOR 10P
CND82	*1-508-767-00	PIN, CONNECTOR (5MM PITCH) 5P
CND83	*1-508-768-00	PIN, CONNECTOR (5MM PITCH) 6P
CND84	*1-565-952-11	PIN, CONNECTOR 6P
CND85	*1-564-507-11	PLUG, CONNECTOR 4P
CND86	*1-508-786-00	PIN, CONNECTOR (5MM PITCH) 2P
CND87	*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P
CND88	*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P
CND89	*1-564-508-11	PLUG, CONNECTOR 5P

<DIODE>

REF.NO.	PART NO.	DESCRIPTION
D502	8-719-109-75	DIODE RD4.3ES-B2
D503	8-719-911-19	DIODE 1SS119
D505	8-719-911-55	DIODE U05G
D506	8-719-911-55	DIODE U05G
D507	8-719-911-55	DIODE U05G
D508	8-719-911-55	DIODE U05G
D509	8-719-911-55	DIODE U05G
D510	8-719-911-55	DIODE U05G
D511	8-719-911-19	DIODE 1SS119
D513	8-719-911-19	DIODE 1SS119
D514	8-719-911-19	DIODE 1SS119
D515	8-719-911-55	DIODE U05G
D516	8-719-911-19	DIODE 1SS119
D801	8-719-911-19	DIODE 1SS119
D802	8-719-911-19	DIODE 1SS119
D803	8-719-911-19	DIODE 1SS119
D805	8-719-911-19	DIODE 1SS119

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REF.NO.	PART NO.	DESCRIPTION	REMARK
D806	8-719-911-19	DIODE 1SS119	
D807	8-719-300-33	DIODE RU-3AM	
D808	8-719-971-09	DIODE ERD08-15	
	4-377-115-01	SPACER, MICA; D808	
	*4-391-704-01	HOLDER (A), TR; D808	
D809	8-719-971-08	DIODE ESAC39M-06C	
D810	8-719-911-55	DIODE U05G	
D811	8-719-911-55	DIODE U05G	
D812	8-719-300-33	DIODE RU-3AM	
D813	8-719-971-20	DIODE ERC38-06	
D815	8-719-300-33	DIODE RU-3AM	
D816	8-719-300-65	DIODE ES1F	
D818	8-719-911-19	DIODE 1SS119	
D825	8-719-300-33	DIODE RU-3AM	
D860	8-719-911-55	DIODE U05G	
D861	8-719-911-55	DIODE U05G	
D862	8-719-931-05	DIODE EQB01-05	

<IC>

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC501	8-759-100-60	IC UPC1377C	
IC503	8-759-982-26	IC RC78L12A	
IC801	8-759-942-16	IC TEA2031A	
IC802	8-759-945-58	IC RC4558P	
IC803	8-759-982-30	IC RC78L24A	

<COIL>

REF.NO.	PART NO.	DESCRIPTION	REMARK
L801	1-459-474-11	COIL (WITH CORE)	
L803	1-408-228-21	INDUCTOR 560UH	
L804	1-459-104-00	COIL, DUST CORE	
L805	1-459-194-00	COIL (WITH CORE)	
L806	1-410-396-41	FERRITE BEAD INDUCTOR	
L807	1-459-485-00	COIL, CHOKE	
L808	1-410-674-31	INDUCTOR 82UH	
L809	1-459-104-00	COIL, DUST CORE	
L810	1-425-613-00	COIL,AIR-CORE,QF TYPE	
L860	1-408-247-00	INDUCTOR 33MMH	
L861	1-443-012-00	TRANSFORMER,DYNAMIC CONVERSION	
L862	1-459-105-21	COIL(WITH CORE)	

<NEON LAMP>

REF.NO.	PART NO.	DESCRIPTION	REMARK
NL801	1-519-108-99	LAMP, NEON	

<IC LINK>

REF.NO.	PART NO.	DESCRIPTION	REMARK
PS801⚠	1-532-605-91	LINK, IC (ICP-N10) 0.4A	

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q502	8-729-173-38	TRANSISTOR 2SA733-K	
Q504	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q505	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q506	8-729-173-38	TRANSISTOR 2SA733-K	
Q507	8-729-140-96	TRANSISTOR 2SD774-34	
Q508	8-729-140-97	TRANSISTOR 2SB734-34	
Q509	8-729-320-27	TRANSISTOR 2SC4381	
Q510	8-729-320-28	TRANSISTOR 2SA1667	
Q511	8-729-195-82	TRANSISTOR 2SC2958-L	
Q512	8-729-173-38	TRANSISTOR 2SA733-K	
Q513	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q514	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q515	8-729-900-89	TRANSISTOR DTC144ES	
Q801	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q802	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q803	8-729-378-84	TRANSISTOR 2SD788-5	
Q804	8-729-208-72	TRANSISTOR 2SC3298B-Y	
Q805	8-729-119-80	TRANSISTOR 2SC2688-LK	
Q806	8-729-820-96	TRANSISTOR 2SC3996CA	
	4-370-507-11	SPACER (A), MICA; Q806	
	*4-391-705-01	HOLDER (B), TR; Q806	
Q860	8-729-195-82	TRANSISTOR 2SC2958-L	
Q861	8-729-122-03	TRANSISTOR 2SA1220A-P	
Q862	8-729-173-38	TRANSISTOR 2SA733-K	
Q5001	8-729-900-89	TRANSISTOR DTC144ES	
Q5002	8-729-900-89	TRANSISTOR DTC144ES	
Q5004	8-729-900-89	TRANSISTOR DTC144ES	
Q5005	8-729-900-89	TRANSISTOR DTC144ES	

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
R503	1-215-461-00	METAL	47K	1%	1/6W	
R504	1-249-417-11	CARBON	1K	5%	1/4W	
R505	1-249-437-11	CARBON	47K	5%	1/4W	
R506	1-249-421-11	CARBON	2.2K	5%	1/4W	
R507 ⚠	1-212-857-61	FUSIBLE	10	5%	1/4W	F
R508	1-215-484-00	METAL	430K	1%	1/6W	
R509	1-249-428-11	CARBON	8.2K	5%	1/4W	
R510	1-215-451-00	METAL	18K	1%	1/6W	
R511	1-249-421-11	CARBON	2.2K	5%	1/4W	
R512	1-249-429-11	CARBON	10K	5%	1/4W	
R513	1-215-469-00	METAL	100K	1%	1/6W	
R515	1-215-447-00	METAL	12K	1%	1/6W	
R516	1-215-451-00	METAL	18K	1%	1/6W	
R518	1-249-425-11	CARBON	4.7K	5%	1/4W	
R519	1-202-723-00	SOLID	2.2M	10%	1/2W	
R520	1-249-429-11	CARBON	10K	5%	1/4W	
R521	1-249-423-11	CARBON	3.3K	5%	1/4W	
R522	1-249-413-11	CARBON	470	5%	1/4W	
R523	1-249-418-11	CARBON	1.2K	5%	1/4W	
R524	1-249-417-11	CARBON	1K	5%	1/4W	
R525	1-249-417-11	CARBON	1K	5%	1/4W	
R526	1-215-878-00	METAL OXIDE	33K	5%	1W	F
R527	1-249-405-11	CARBON	100	5%	1/4W	
R528	1-249-749-00	CARBON	2.2M	5%	1/4W	
R529	1-249-424-11	CARBON	3.9K	5%	1/4W	
R530	1-249-429-11	CARBON	10K	5%	1/4W	
R531	1-249-427-11	CARBON	6.8K	5%	1/4W	
R532	1-202-731-00	SOLID	10M	10%	1/2W	
R533	1-215-453-00	METAL	22K	1%	1/6W	
R534	1-215-459-00	METAL	39K	1%	1/6W	
R535	1-216-457-00	METAL OXIDE	1.2K	5%	2W	F
R536	1-215-444-00	METAL	9.1K	1%	1/6W	
R537	1-249-415-11	CARBON	680	5%	1/4W	
R538	1-249-413-11	CARBON	470	5%	1/4W	
R539	1-249-416-11	CARBON	820	5%	1/4W	
R540	1-216-351-00	METAL OXIDE	1.5	5%	1W	F
R541	1-215-916-00	METAL OXIDE	680	5%	3W	F
R542	1-215-863-11	METAL OXIDE	100	5%	1W	F
R543	1-215-890-11	METAL OXIDE	470	5%	2W	F
R544	1-215-859-00	METAL OXIDE	22	5%	1W	F
R545	1-249-415-11	CARBON	680	5%	1/4W	
R546	1-249-415-11	CARBON	680	5%	1/4W	
R547	1-249-385-11	CARBON	2.2	5%	1/4W	
R548 ⚠	1-212-936-61	FUSIBLE	1.2	5%	1/2W	F
R549 ⚠	1-212-936-61	FUSIBLE	1.2	5%	1/2W	F

D

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REF.NO.	PART NO.	DESCRIPTION				REMARK
R550	1-216-478-11	METAL OXIDE	390	5%	3W	F
R552	⚠1-212-889-61	FUSIBLE	220	5%	1/4W	F
R553	⚠1-212-936-61	FUSIBLE	1.2	5%	1/2W	F
R554	1-215-869-11	METAL OXIDE	1K	5%	1W	F
R555	1-216-454-11	METAL OXIDE	390	5%	2W	F
R556	1-216-454-11	METAL OXIDE	390	5%	2W	F
R557	1-247-901-11	CARBON	820K	5%	1/4W	
R558	1-249-429-11	CARBON	10K	5%	1/4W	
R559	1-249-429-11	CARBON	10K	5%	1/4W	
R560	1-247-903-00	CARBON	1M	5%	1/4W	
R561	1-249-423-11	CARBON	3.3K	5%	1/4W	
R568	1-249-434-11	CARBON	27K	5%	1/4W	
R569	1-249-440-11	CARBON	82K	5%	1/4W	
R570	1-249-417-11	CARBON	1K	5%	1/4W	
R571	1-249-437-11	CARBON	47K	5%	1/4W	
R572	1-249-421-11	CARBON	2.2K	5%	1/4W	
R573	1-249-411-11	CARBON	330	5%	1/4W	
R574	1-249-417-11	CARBON	1K	5%	1/4W	
R575	1-249-417-11	CARBON	1K	5%	1/4W	
R576	1-249-440-11	CARBON	82K	5%	1/4W	
R577	1-249-423-11	CARBON	3.3K	5%	1/4W	
R578	1-249-433-11	CARBON	22K	5%	1/4W	
R579	1-249-433-11	CARBON	22K	5%	1/4W	
R580	1-249-430-11	CARBON	12K	5%	1/4W	
R581	1-215-449-00	METAL	15K	1%	1/6W	
R582	1-214-757-00	METAL	15K	1%	1/4W	
R583	1-215-421-00	METAL	1K	1%	1/6W	
R584	1-249-405-11	CARBON	100	5%	1/4W	
R586	1-249-428-11	CARBON	8.2K	5%	1/4W	
R587	1-249-429-11	CARBON	10K	5%	1/4W	
R588	1-249-427-11	CARBON	6.8K	5%	1/4W	
R589	1-249-429-11	CARBON	10K	5%	1/4W	
R590	1-249-417-11	CARBON	1K	5%	1/4W	
R591	1-249-417-11	CARBON	1K	5%	1/4W	
R592	1-247-883-00	CARBON	150K	5%	1/4W	
R593	1-249-429-11	CARBON	10K	5%	1/4W	
R594	1-249-429-11	CARBON	10K	5%	1/4W	
R595	1-249-427-11	CARBON	6.8K	5%	1/4W	
R596	1-249-423-11	CARBON	3.3K	5%	1/4W	
R597	1-249-423-11	CARBON	3.3K	5%	1/4W	
R598	1-249-437-11	CARBON	47K	5%	1/4W	
R599	1-249-429-11	CARBON	10K	5%	1/4W	
R801	1-249-417-11	CARBON	1K	5%	1/4W	
R802	1-249-429-11	CARBON	10K	5%	1/4W	
R803	1-249-428-11	CARBON	8.2K	5%	1/4W	
R804	1-249-434-11	CARBON	27K	5%	1/4W	
R805	1-247-895-00	CARBON	470K	5%	1/4W	
R806	1-249-417-11	CARBON	1K	5%	1/4W	
R807	1-249-435-11	CARBON	33K	5%	1/4W	
R808	1-249-433-11	CARBON	22K	5%	1/4W	
R809	1-249-431-11	CARBON	15K	5%	1/4W	
R810	1-249-425-11	CARBON	4.7K	5%	1/4W	
R811	1-249-421-11	CARBON	2.2K	5%	1/4W	
R812	1-249-432-11	CARBON	18K	5%	1/4W	
R813	1-247-883-00	CARBON	150K	5%	1/4W	
R815	1-249-440-11	CARBON	82K	5%	1/4W	
R816	1-249-433-11	CARBON	22K	5%	1/4W	
R817	1-249-417-11	CARBON	1K	5%	1/4W	
R819	1-249-439-11	CARBON	68K	5%	1/4W	
R820	1-249-439-11	CARBON	68K	5%	1/4W	
R822	1-249-429-11	CARBON	10K	5%	1/4W	
R823	1-215-917-11	METAL OXIDE	1K	5%	3W	F
R824	1-249-417-11	CARBON	1K	5%	1/4W	
R825	1-215-900-11	METAL OXIDE	22K	5%	2W	F

REF.NO.	PART NO.	DESCRIPTION				REMARK
R826	1-249-426-11	CARBON	5.6K	5%	1/4W	
R827	1-249-429-11	CARBON	10K	5%	1/4W	
R828	1-249-441-11	CARBON	100K	5%	1/4W	
R829	1-249-426-11	CARBON	5.6K	5%	1/4W	
R830	1-249-429-11	CARBON	10K	5%	1/4W	
R831	1-247-895-00	CARBON	470K	5%	1/4W	
R834	1-249-495-11	CARBON	82K	5%	1/2W	
R835	1-249-470-11	CARBON	0.47	5%	1/2W	F
R836	1-216-345-11	METAL OXIDE	0.47	5%	1W	F
R837	1-215-905-11	METAL OXIDE	10	5%	3W	F
R838	1-216-434-11	METAL OXIDE	1.8K	5%	1W	F
R839	1-247-761-11	CARBON	5.6K	5%	1/2W	
R841	1-215-920-11	METAL OXIDE	3.3K	5%	3W	F
R842	1-215-920-11	METAL OXIDE	3.3K	5%	3W	F
R843	1-216-480-11	METAL OXIDE	820	5%	3W	F
R844	1-215-896-00	METAL OXIDE	4.7K	5%	2W	F
R846	1-247-727-11	CARBON	10	5%	1/2W	
R847	1-215-868-00	METAL OXIDE	680	5%	1W	F
R848	1-216-449-11	METAL OXIDE	56	5%	2W	F
R849	1-216-450-00	METAL OXIDE	82	5%	2W	F
R850	1-216-450-00	METAL OXIDE	82	5%	2W	F
R851	1-216-357-00	METAL OXIDE	4.7	5%	1W	F
R853	1-249-397-11	CARBON	22	5%	1/4W	F
R854	1-249-441-11	CARBON	100K	5%	1/4W	
R856	1-247-725-11	CARBON	10K	5%	1/4W	
R857	1-249-419-11	CARBON	1.5K	5%	1/4W	
R858	1-247-891-00	CARBON	330K	5%	1/4W	
R861	1-247-887-00	CARBON	220K	5%	1/4W	
R862	1-249-436-11	CARBON	39K	5%	1/4W	
R863	1-247-889-00	CARBON	270K	5%	1/4W	
R864	⚠1-212-952-61	FUSIBLE	5.6	5%	1/2W	F
R865	1-215-881-11	METAL OXIDE	15	5%	2W	F
R867	1-249-411-11	CARBON	330	5%	1/4W	F
R868	1-249-423-11	CARBON	3.3K	5%	1/4W	
R869	1-249-411-11	CARBON	330	5%	1/4W	
R870	1-215-906-11	METAL OXIDE	15	5%	3W	F
R872	1-216-480-11	METAL OXIDE	820	5%	3W	F
R873	1-249-425-11	CARBON	4.7K	5%	1/4W	
R874	1-249-437-11	CARBON	47K	5%	1/4W	
R875	1-247-895-00	CARBON	470K	5%	1/4W	
R5001	1-249-429-11	CARBON	10K	5%	1/4W	
R5003	1-249-421-11	CARBON	2.2K	5%	1/4W	
R5006	1-249-429-11	CARBON	10K	5%	1/4W	
R5010	1-215-894-11	METAL OXIDE	2.2K	5%	2W	F

<VARIABLE RESISTOR>

RV501	1-230-504-11	RES, ADJ, CARBON 220
RV502	1-228-994-00	RES, ADJ, CARBON 10K
RV503	1-228-995-00	RES, ADJ, CARBON 22K
RV504	1-226-702-00	RES, ADJ, METAL GLAZE 2.2K
RV505	1-228-994-00	RES, ADJ, METAL GLAZE 10K
RV506	1-228-991-00	RES, ADJ, CARBON 2.2K
RV507	1-228-991-00	RES, ADJ, CARBON 2.2K
RV801	1-228-991-00	RES, ADJ, CARBON 2.2K
RV802	1-228-999-00	RES, ADJ, CARBON 470K
RV803	1-228-999-00	RES, ADJ, CARBON 470K
RV804	1-228-994-00	RES, ADJ, CARBON 10K
RV805	1-228-995-00	RES, ADJ, CARBON 22K

<SPARK GAP>

SG801	1-519-063-99	DISCHARGING GAP

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

<TRANSFORMER>

REF.NO.	PART NO.	DESCRIPTION	REMARK
T801	1-437-090-00	HDT	
T802	1-424-168-11	TRANSFORMER, PIN MODULATION	
T803	⚠1-459-919-11	TRANSFORMER	
T804	1-413-059-00	TRANSFORMER, FERRITE (DFT)	

****

*1-627-728-11 H BOARD
****

*4-390-706-01 HOLDER, LED

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION
CNH01	*1-564-523-11	PLUG, CONNECTOR 8P
CNH02	*1-564-520-11	PLUG, CONNECTOR 5P

<DIODE>

REF.NO.	PART NO.	DESCRIPTION
D1001	8-719-800-94	DIODE TLUR144
D1002	8-719-812-41	DIODE TLR124
D1003	8-719-812-41	DIODE TLR124
D1004	8-719-812-41	DIODE TLR124
D1005	8-719-812-41	DIODE TLR124

<IC>

REF.NO.	PART NO.	DESCRIPTION
IC1001	8-749-900-36	IC BX-1393

<SWITCH>

REF.NO.	PART NO.	DESCRIPTION
S1001	1-554-937-11	SWITCH, KEY BOARD
S1002	1-554-937-11	SWITCH, KEY BOARD
S1003	1-554-937-11	SWITCH, KEY BOARD
S1004	1-554-937-11	SWITCH, KEY BOARD
S1005	1-554-937-11	SWITCH, KEY BOARD

****

*1-627-736-11 J2 BOARD
****

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION
CNJ23	*1-564-523-11	PLUG, CONNECTOR 8P

<JACK>

REF.NO.	PART NO.	DESCRIPTION
J1499	1-507-806-00	JACK 1P

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION			
R1498	1-247-708-11	CARBON	470	5%	1/4W
R1499	1-247-708-11	CARBON	470	5%	1/4W

****

*A-1388-080-A J1 BOARD, COMPLETE
****

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION			REMARK
C202	1-124-902-00	ELECT	0.47MF	20%	50V
C203	1-124-791-11	ELECT	1MF	20%	50V
C204	1-124-902-00	ELECT	0.47MF	20%	50V
C206	1-124-791-11	ELECT	1MF	20%	50V
C208	1-102-110-00	CERAMIC	220PF	10%	50V
C213	1-126-233-11	ELECT	22MF	20%	50V
C214	1-130-481-00	MYLAR	0.0068MF	5%	50V
C216	1-102-110-00	CERAMIC	220PF	10%	50V
C217	1-124-902-00	ELECT	0.47MF	20%	50V
C218	1-130-487-00	MYLAR	0.022MF	5%	50V
C219	1-130-487-00	MYLAR	0.022MF	5%	50V
C220	1-130-477-00	MYLAR	0.0033MF	5%	50V
C221	1-130-477-00	MYLAR	0.0033MF	5%	50V
C222	1-130-492-11	MYLAR	0.056MF	5%	50V
C223	1-130-492-11	MYLAR	0.056MF	5%	50V
C224	1-130-483-00	MYLAR	0.01MF	5%	50V
C225	1-136-173-00	FILM	0.47MF	5%	50V
C226	1-136-173-00	FILM	0.47MF	5%	50V
C227	1-130-487-00	MYLAR	0.022MF	5%	50V
C228	1-130-489-00	MYLAR	0.033MF	5%	50V
C229	1-130-485-00	MYLAR	0.015MF	5%	50V
C230	1-130-485-00	MYLAR	0.015MF	5%	50V
C231	1-124-902-00	ELECT	0.47MF	20%	50V
C232	1-123-875-11	ELECT	10MF	20%	50V
C233	1-102-114-00	CERAMIC	470PF	10%	50V
C234	1-102-114-00	CERAMIC	470PF	10%	50V
C236	1-124-902-00	ELECT	0.47MF	20%	50V
C237	1-124-902-00	ELECT	0.47MF	20%	50V
C238	1-102-978-00	CERAMIC	220PF	5%	50V
C239	1-126-103-11	ELECT	470MF	20%	16V
C240	1-130-481-00	MYLAR	0.0068MF	5%	50V
C1401	1-123-875-11	ELECT	10MF	20%	50V
C1402	1-126-103-11	ELECT	470MF	20%	16V
C1403	1-102-114-00	CERAMIC	470PF	10%	50V
C1404	1-124-902-00	ELECT	0.47MF	20%	50V
C1405	1-101-003-00	CERAMIC	0.0047MF		50V
C1406	1-124-902-00	ELECT	0.47MF	20%	50V
C1407	1-123-875-11	ELECT	10MF	20%	50V
C1408	1-126-101-11	ELECT	100MF	20%	16V
C1409	1-126-233-11	ELECT	22MF	20%	50V
C1412	1-124-477-11	ELECT	47MF	20%	16V
C1413	1-124-477-11	ELECT	47MF	20%	16V
C1414	1-123-875-11	ELECT	10MF	20%	50V
C1415	1-124-902-00	ELECT	0.47MF	20%	50V
C1416	1-124-902-00	ELECT	0.47MF	20%	50V
C1417	1-124-477-11	ELECT	47MF	20%	16V
C1418	1-102-114-00	CERAMIC	470PF	10%	50V
C1419	1-102-114-00	CERAMIC	470PF	10%	50V
C1421	1-124-477-11	ELECT	47MF	20%	16V
C1423	1-130-487-00	MYLAR	0.022MF	5%	50V
C1424	1-130-487-00	MYLAR	0.022MF	5%	50V
C1425	1-124-902-00	ELECT	0.47MF	20%	50V
C1426	1-124-902-00	ELECT	0.47MF	20%	50V
C1427	1-101-003-00	CERAMIC	0.0047MF		50V
C1428	1-101-003-00	CERAMIC	0.0047MF		50V
C1429	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C1430	1-102-114-00	CERAMIC	470PF	10%	50V
C1431	1-124-902-00	ELECT	0.47MF	20%	50V
C1432	1-124-902-00	ELECT	0.47MF	20%	50V
C1433	1-126-101-11	ELECT	100MF	20%	16V
C1450	1-123-875-11	ELECT	10MF	20%	50V

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION
CNJ01	1-561-534-41	SOCKET 21P

J1 **V**

REF.NO.	PART NO.	DESCRIPTION	REMARK
CNJ02	1-561-534-41	SOC[illegible]	
CNJ03	*1-566-641-11	CONNECTOR, HINGE (TAB) 18P	
CNJ04	1-536-996-11	TERMINAL BOARD, INPUT/OUTPUT	
CNJ05	*1-560-721-21	PLUG, CONNECTOR 2P	
CNJ21	*1-566-641-11	CONNECTOR, HINGE (TAB) 18P	

<DIODE>

REF.NO.	PART NO.	DESCRIPTION	REMARK
D201	8-719-110-14	DIODE RD9.1ES-B3	
D202	8-719-110-14	DIODE RD9.1ES-B3	
D1401	8-719-110-04	DIODE RD7.5ES-B3	
D1403	8-719-110-04	DIODE RD7.5ES-B3	
D1404	8-719-110-04	DIODE RD7.5ES-B3	
D1405	8-719-110-04	DIODE RD7.5ES-B3	
D1406	8-719-110-04	DIODE RD7.5ES-B3	
D1407	8-719-110-04	DIODE RD7.5ES-B3	
D1408	8-719-110-14	DIODE RD9.1ES-B3	
D1409	8-719-110-04	DIODE RD7.5ES-B3	
D1418	8-719-110-04	DIODE RD7.5ES-B3	
D1419	8-719-110-04	DIODE RD7.5ES-B3	
D1421	8-719-110-04	DIODE RD7.5ES-B3	
D1422	8-719-110-04	DIODE RD7.5ES-B3	
D1423	8-719-110-04	DIODE RD7.5ES-B3	
D1425	8-719-110-04	DIODE RD7.5ES-B3	

<IC>

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC201	8-759-013-17	IC TDA6200	
IC1401	8-752-032-27	IC CXA1114P	
IC1402	8-759-946-32	IC TEA2014A	

<COIL>

REF.NO.	PART NO.	DESCRIPTION	REMARK
L1401	1-459-407-00	COIL, FERRITE CHOKE	
L1402	1-459-407-00	COIL, FERRITE CHOKE	

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q201	8-729-173-38	TRANSISTOR 2SA733-K	
Q202	8-729-173-38	TRANSISTOR 2SA733-K	
Q1401	8-729-173-38	TRANSISTOR 2SA733-K	
Q1402	8-729-173-38	TRANSISTOR 2SA733-K	
Q1405	8-729-173-38	TRANSISTOR 2SA733-K	

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
R201	1-249-437-11	CARBON	47K	5%	1/4W	
R202	1-249-425-11	CARBON	4.7K	5%	1/4W	
R204	1-249-435-11	CARBON	33K	5%	1/4W	
R205	1-249-435-11	CARBON	33K	5%	1/4W	
R206	1-249-423-11	CARBON	3.3K	5%	1/4W	
R207	1-249-423-11	CARBON	3.3K	5%	1/4W	
R208	1-249-431-11	CARBON	15K	5%	1/4W	
R209	1-249-433-11	CARBON	22K	5%	1/4W	
R210	1-249-431-11	CARBON	15K	5%	1/4W	
R211	1-249-441-11	CARBON	100K	5%	1/4W	
R212	1-249-433-11	CARBON	22K	5%	1/4W	
R213	1-249-431-11	CARBON	15K	5%	1/4W	
R214	1-249-409-11	CARBON	220	5%	1/4W	
R215	1-249-433-11	CARBON	22K	5%	1/4W	
R216	1-249-433-11	CARBON	22K	5%	1/4W	
R217	1-249-431-11	CARBON	15K	5%	1/4W	
R218	1-249-409-11	CARBON	220	5%	1/4W	
R219	1-249-429-11	CARBON	10K	5%	1/4W	
R220	1-249-425-11	CARBON	4.7K	5%	1/4W	
R221	1-249-417-11	CARBON	1K	5%	1/4W	
R222	1-249-417-11	CARBON	1K	5%	1/4W	
R223	1-249-413-11	CARBON	470	5%	1/4W	
R224	1-249-413-11	CARBON	470	5%	1/4W	
R225	1-249-393-11	CARBON	10	5%	1/4W	F
R226	1-249-413-11	CARBON	470	5%	1/4W	
R227	1-249-417-11	CARBON	1K	5%	1/4W	
R228	1-249-417-11	CARBON	1K	5%	1/4W	
R229	1-249-437-11	CARBON	47K	5%	1/4W	
R231	1-249-409-11	CARBON	220	5%	1/4W	
R232	1-249-409-11	CARBON	220	5%	1/4W	
R1401	1-247-804-11	CARBON	75	5%	1/4W	
R1402	1-247-804-11	CARBON	75	5%	1/4W	
R1403	1-249-437-11	CARBON	47K	5%	1/4W	
R1404	1-249-413-11	CARBON	470	5%	1/4W	
R1405	1-249-429-11	CARBON	10K	5%	1/4W	
R1406	1-249-427-11	CARBON	6.8K	5%	1/4W	
R1407	1-247-895-00	CARBON	470K	5%	1/4W	
R1408	1-249-434-11	CARBON	27K	5%	1/4W	
R1409	1-249-413-11	CARBON	470	5%	1/4W	
R1410	1-249-434-11	CARBON	27K	5%	1/4W	
R1411	1-249-413-11	CARBON	470	5%	1/4W	
R1412	1-249-437-11	CARBON	47K	5%	1/4W	
R1413	1-247-895-00	CARBON	470K	5%	1/4W	
R1414	1-249-437-11	CARBON	47K	5%	1/4W	
R1415	1-249-434-11	CARBON	27K	5%	1/4W	
R1416	1-249-434-11	CARBON	27K	5%	1/4W	
R1417	1-247-804-11	CARBON	75	5%	1/4W	
R1418	1-247-738-11	CARBON	82	5%	1/2W	F
R1419	1-249-409-11	CARBON	220	5%	1/4W	
R1420	1-249-409-11	CARBON	220	5%	1/4W	
R1421	1-249-409-11	CARBON	220	5%	1/4W	
R1422	1-249-409-11	CARBON	220	5%	1/4W	
R1423	1-249-434-11	CARBON	27K	5%	1/4W	
R1424	1-249-434-11	CARBON	27K	5%	1/4W	
R1425	1-249-409-11	CARBON	220	5%	1/4W	
R1426	1-249-416-11	CARBON	820	5%	1/4W	
R1427	1-249-416-11	CARBON	820	5%	1/4W	
R1428	1-247-895-00	CARBON	470K	5%	1/4W	
R1429	1-247-895-00	CARBON	470K	5%	1/4W	
R1430	1-247-804-11	CARBON	75	5%	1/4W	
R1433	1-249-405-11	CARBON	100	5%	1/4W	
R1434	1-249-393-11	CARBON	10	5%	1/4W	F
R1437	1-249-429-11	CARBON	10K	5%	1/4W	
R1438	1-249-427-11	CARBON	6.8K	5%	1/4W	
R1440	1-249-417-11	CARBON	1K	5%	1/4W	
R1442	1-249-437-11	CARBON	47K	5%	1/4W	
R1443	1-249-437-11	CARBON	47K	5%	1/4W	
R1445	1-249-440-11	CARBON	82K	5%	1/4W	
R1447	1-249-409-11	CARBON	220	5%	1/4W	
R1448	1-249-409-11	CARBON	220	5%	1/4W	
R1449	1-247-804-11	CARBON	75	5%	1/4W	
R1450	1-247-804-11	CARBON	75	5%	1/4W	
R1451	1-247-804-11	CARBON	75	5%	1/4W	
R1455	1-247-804-11	CARBON	75	5%	1/4W	
R1456	1-249-409-11	CARBON	220	5%	1/4W	
R1457	1-249-409-11	CARBON	220	5%	1/4W	
R1459	1-249-413-11	CARBON	470	5%	1/4W	

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*A-1645-009-A V BOARD, COMPLETE

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The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

Les composants identifies par une trame et une marque ⚠ sont critiques pour la securite.
Ne les remplacer que par une piece portant le numero specifie.

REF.NO.	PART NO.	DESCRIPTION				REMARK
	*4-380-698-01	CASE (MAIN), SHIELD, A1				

<CAPACITOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
C02	1-124-120-11	ELECT	220MF	20%	16V	
C03	1-124-119-00	ELECT	330MF	20%	16V	
C05	1-126-101-11	ELECT	100MF	20%	16V	
C06	1-124-120-11	ELECT	220MF	20%	16V	
C07	1-124-791-11	ELECT	1MF	20%	50V	
C08	1-163-097-00	CERAMIC CHIP	15PF	5%	50V	
C09	1-163-141-00	CERAMIC CHIP	0.001MF	5%	50V	
C10	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	
C11	1-163-037-11	CERAMIC CHIP	0.022MF	10%	25V	
C12	1-163-127-00	CERAMIC CHIP	270PF	5%	50V	
C13	1-163-117-00	CERAMIC CHIP	100PF	5%	50V	
C14	1-163-097-00	CERAMIC CHIP	15PF	5%	50V	
C15	1-163-103-00	CERAMIC CHIP	27PF	5%	50V	
C16	1-164-232-11	CERAMIC CHIP	0.01MF	10%	50V	
C17	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V	
C18	1-163-099-00	CERAMIC CHIP	18PF	5%	50V	
C19	1-163-809-11	CERAMIC CHIP	0.047MF	10%	25V	
C20	1-163-125-00	CERAMIC CHIP	220PF	5%	50V	
C21	1-163-833-00	CERAMIC CHIP	0.068MF		25V	
C24	1-126-101-11	ELECT	100MF	20%	16V	
C25	1-124-477-11	ELECT	47MF	20%	16V	
C27	1-163-129-00	CERAMIC CHIP	330PF	5%	50V	
C28	1-163-137-00	CERAMIC CHIP	680PF	5%	50V	
C51	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C52	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C53	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C54	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C55	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C56	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C57	1-124-477-11	ELECT	47MF	20%	16V	
C58	1-124-477-11	ELECT	47MF	20%	16V	
C59	1-163-038-00	CERAMIC CHIP	0.1MF		25V	
C60	1-163-133-00	CERAMIC CHIP	470PF	5%	50V	

<CONNECTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CNV03	*1-508-784-00	PIN, CONNECTOR (5MM PITCH) 1P	
CNV41	*1-565-393-11	CONNECTOR, BOARD TO BOARD	
CNV42	*1-565-393-11	CONNECTOR, BOARD TO BOARD	

<TRIMMER>

REF.NO.	PART NO.	DESCRIPTION	REMARK
CT01	1-141-181-11	CAP,TRIMMER	

<DIODE>

REF.NO.	PART NO.	DESCRIPTION	REMARK
D01	8-719-105-91	DIODE RD5.6M-B2	
D02	8-719-106-79	DIODE RD13M-B1	
D03	8-719-400-18	DIODE MA152WK	
D07	8-719-106-17	DIODE RD6.8M-B2	
D08	8-719-106-17	DIODE RD6.8M-B2	
D10	8-719-400-18	DIODE MA152WK	

<IC>

REF.NO.	PART NO.	DESCRIPTION	REMARK
IC1	8-759-038-58	IC SDA20162-A002	
IC2	8-759-013-20	IC SDA5231	
IC3	8-759-032-98	IC SDA5243	
IC4	8-759-230-69	IC TC5563APL-12L	

<COIL>

REF.NO.	PART NO.	DESCRIPTION		REMARK
L01	1-408-411-00	INDUCTOR	15UH	
L04	1-408-407-00	INDUCTOR	6.8UH	
L05	1-408-407-00	INDUCTOR	6.8UH	
L06	1-408-407-00	INDUCTOR	6.8UH	

<IC LINK>

REF.NO.	PART NO.	DESCRIPTION	REMARK
PS01	⚠1-532-679-91	LINK, IC (ICP-N15) 0.6A	
PS02	⚠1-532-727-91	LINK, IC 0.25A	

<TRANSISTOR>

REF.NO.	PART NO.	DESCRIPTION	REMARK
Q3	8-729-900-53	TRANSISTOR DTC114EK	
Q01	8-729-920-92	TRANSISTOR 2SD2096-EF	
Q02	8-729-807-50	TRANSISTOR 2SD1623-R	
Q04	8-729-271-22	TRANSISTOR 2SC2712-G	
Q05	8-729-807-50	TRANSISTOR 2SD1623-R	
Q07	8-729-900-98	TRANSISTOR DTC143TK	
Q09	8-729-807-87	TRANSISTOR 2SB1295-UL6	
Q10	8-729-807-87	TRANSISTOR 2SB1295-UL6	
Q11	8-729-807-87	TRANSISTOR 2SB1295-UL6	
Q14	8-729-807-87	TRANSISTOR 2SB1295-UL6	

<RESISTOR>

REF.NO.	PART NO.	DESCRIPTION				REMARK
JW18	1-216-295-00	METAL GLAZE		5%	1/10W	
JW19	1-216-295-00	METAL GLAZE		5%	1/10W	
JW20	1-216-295-00	METAL GLAZE		5%	1/10W	
JW21	1-216-295-00	METAL GLAZE		5%	1/10W	
JW22	1-216-295-00	METAL GLAZE		5%	1/10W	
JW23	1-216-295-00	METAL GLAZE		5%	1/10W	
JW24	1-216-295-00	METAL GLAZE		5%	1/10W	
JW25	1-216-295-00	METAL GLAZE		5%	1/10W	
JW26	1-216-295-00	METAL GLAZE		5%	1/10W	
JW29	1-216-295-00	METAL GLAZE		5%	1/10W	
JW30	1-216-295-00	METAL GLAZE		5%	1/10W	
JW31	1-216-295-00	METAL GLAZE		5%	1/10W	
JW32	1-216-295-00	METAL GLAZE		5%	1/10W	
JW33	1-216-295-00	METAL GLAZE		5%	1/10W	
JW34	1-216-295-00	METAL GLAZE		5%	1/10W	
JW35	1-216-295-00	METAL GLAZE		5%	1/10W	
JW42	1-216-295-00	METAL GLAZE		5%	1/10W	
JW43	1-216-295-00	METAL GLAZE		5%	1/10W	
R02	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R05	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R06	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R07	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R08	1-216-037-00	METAL GLAZE	330	5%	1/10W	
R09	1-216-091-00	METAL GLAZE	56K	5%	1/10W	
R19	1-216-077-00	METAL GLAZE	15K	5%	1/10W	
R20	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R27	1-216-013-00	METAL GLAZE	33	5%	1/10W	
R28	1-216-013-00	METAL GLAZE	33	5%	1/10W	
R29	1-216-013-00	METAL GLAZE	33	5%	1/10W	
R30	1-218-325-11	METAL GLAZE	120	5%	1/4W	
R31	1-218-325-11	METAL GLAZE	120	5%	1/4W	
R32	1-218-325-11	METAL GLAZE	120	5%	1/4W	
R33	1-216-023-00	METAL GLAZE	82	5%	1/10W	
R34	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R37	1-216-025-00	METAL GLAZE	100	5%	1/10W	
R38	1-216-047-00	METAL GLAZE	820	5%	1/10W	
R41	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R44	1-216-041-00	METAL GLAZE	470	5%	1/10W	

V **G**

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REF.NO	[illegible]O.	DESCRIPTION				REMARK
R45	[illegible]049-00	METAL GLAZE	1K	5%	1/10W	
R46	1[illegible]-311-00	METAL GLAZE	6.8	5%	1/10W	
R51	1-[illegible]-065-00	METAL GLAZE	4.7K	5%	1/10W	
R52	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R53	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R54	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R55	1-216-057-00	METAL GLAZE	2.2K	5%	1/10W	
R56	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R57	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R58	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R59	1-216-081-00	METAL GLAZE	22K	5%	1/10W	
R60	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R61	1-216-071-00	METAL GLAZE	8.2K	5%	1/10W	
R64	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R65	1-216-065-00	METAL GLAZE	4.7K	5%	1/10W	
R66	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R67	1-216-041-00	METAL GLAZE	470	5%	1/10W	
R78	1-216-049-00	METAL GLAZE	1K	5%	1/10W	
R79	1-218-780-11	METAL GLAZE	270	5%	1/4W	
R80	1-218-780-11	METAL GLAZE	270	5%	1/4W	

<VARIABLE RESISTOR>

RV01	1-238-012-11	RES, ADJ, CARBON 1K

<CRYSTAL>

X01	1-567-162-00	OSCILLATOR, CRYSTAL
X02	1-567-495-11	OSCILLATOR, CRYSTAL
X03	1-577-364-11	VIBRATOR, CERAMIC

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⚠1-413-380-11 G BOARD (ZD-109)
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<CAPACITOR>

C601	1-136-721-21	FILM	1.5MF	10%	400V
C602	1-136-725-11	FILM	0.039MF	5%	1.25KV
C603	1-136-725-11	FILM	0.039MF	5%	1.25KV
C604	1-130-325-11	FILM	0.15MF	5%	100V
C605	1-130-325-11	FILM	0.15MF	5%	100V
C606	1-164-143-11	CERAMIC	1000PF	10%	1KV
C607	1-164-143-11	CERAMIC	1000PF	10%	1KV
C608	1-164-143-11	CERAMIC	1000PF	10%	1KV
C609	1-164-144-11	CERAMIC	1500PF	10%	1KV
C610	1-164-143-11	CERAMIC	1000PF	10%	1KV
C611	1-102-038-00	CERAMIC	1000PF		500V
C612	1-108-843-11	MYLAR	0.033MF	10%	50V
C613	1-124-477-11	ELECT	47MF	20%	16V
C614	1-126-176-11	ELECT	220MF	20%	6.3V
C615	1-123-380-00	ELECT	1MF	20%	50V
C616	1-124-557-11	ELECT	1000MF	20%	25V
C618	1-124-439-11	ELECT	2700MF	20%	25V
C619	1-124-557-11	ELECT	1000MF	20%	25V
C620	1-124-568-00	ELECT	47[illegible]	20%	10V
C621	1-124-347-00	ELECT	10[illegible]	20%	160V
C622	1-108-843-11	MYLAR	0.033MF	10%	50V
C623	1-162-115-00	CERAMIC	330PF	10%	2KV
C624	1-124-471-00	ELECT	1000MF	20%	6.3V

<DIODE>

D601	8-719-500-69	DIODE S3V10SS
D602	8-719-500-69	DIODE S3V10SS
D603	8-719-500-26	DIODE D5KD20H
D605	8-719-510-13	DIODE D10SC4MR
D606	8-719-510-12	DIODE D10SC4M

REF.NO.	PART NO.	DESCRIPTION	REMARK
D607	8-719-300-33	DIODE RU-3AM	
D608	8-719-300-33	DIODE RU-3AM	
D609	8-719-500-67	DIODE D5KC40H	
D610	8-719-911-19	DIODE 1SS119	
D611	8-719-911-19	DIODE 1SS119	
D612	8-719-911-19	DIODE 1SS119	
D613	8-719-911-19	DIODE 1SS119	
D615	8-719-801-95	DIODE 2GWJ42	
D616	8-719-911-55	DIODE U05G	

<CONNECTOR>

G1	*1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P
G2	*1-508-767-00	PIN, CONNECTOR (5MM PITCH) 5P
G3	*1-564-507-11	PLUG, CONNECTOR 4P
G4	*1-564-506-11	PLUG, CONNECTOR 3P

<MODULE>

IC601	1-236-237-11	POWER MODULE (DM-38)

<COIL>

L603	1-408-300-00	INDUCTOR	6.80UH
L604	1-421-329-00	COIL, CHOKE	
L605	1-410-397-21	FERRITE BEAD INDUCTOR	1.10UH
L606	1-407-365-00	COIL, CHOKE	
L607	1-410-397-21	FERRITE BEAD INDUCTOR	1.10UH
L609	1-410-397-21	FERRITE BEAD INDUCTOR	1.10UH
L610	1-410-397-21	FERRITE BEAD INDUCTOR	1.10UH
L613	1-410-397-21	FERRITE BEAD INDUCTOR	1.10UH
L615	1-459-155-00	COIL (WITH CORE) 45UH	
L616	1-459-155-00	COIL (WITH CORE) 45UH	
L617	1-459-155-00	COIL (WITH CORE) 45UH	
L618	1-459-155-00	COIL (WITH CORE) 45UH	

<TRANSISTOR>

Q601	8-729-905-72	TRANSISTOR 2SC4056P
Q602	8-729-905-72	TRANSISTOR 2SC4056P
Q603	8-729-119-78	TRANSISTOR 2SC2785-HFE
Q604	8-729-119-78	TRANSISTOR 2SC2785-HFE

<RESISTOR>

R601	1-215-904-11	METAL OXIDE	100K	5%	2W	F
R602	1-215-904-11	METAL OXIDE	100K	5%	2W	F
R605	1-207-451-00	WIREWOUND	0.1	10%	1/2W	
R606	1-207-451-00	WIREWOUND	0.1	10%	1/2W	
R607	1-216-370-11	METAL OXIDE	1.2	5%	2W	F
R608	1-216-370-11	METAL OXIDE	1.2	5%	2W	F
R609	1-249-405-11	CARBON	100	5%	1/4W	F
R610	1-249-405-11	CARBON	100	5%	1/4W	F
R611	1-249-417-11	CARBON	1K	5%	1/4W	
R612	1-249-382-11	CARBON	1.2	5%	1/4W	F
R613	1-249-398-11	CARBON	27	5%	1/4W	F
R614	1-249-405-11	CARBON	100	5%	1/4W	F
R615	1-216-363-00	METAL OXIDE	0.33	5%	2W	F
R616	1-[illegible]3-00	METAL OXIDE	0.33	5%	2W	F
R617	1-2[illegible]-00	WIREWOUND	0.33	10%	1/2W	
R618	1-2[illegible]1-00	WIREWOUND	0.1	10%	1/2W	
R619	1-249-417-11	CARBON	1K	5%	1/4W	
R620	1-249-407-11	CARBON	150	5%	1/4W	F
R621	1-249-405-11	CARBON	100	5%	1/4W	F

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REF.NO.	PART NO.	DESCRIPTION	REMARK
		<TRANSFORMER>	
T601	1-424-023-11	TRANSFORMER, LINE FILTER	
T602	⚠1-424-147-11	TRANSFORMER, POWER REGULATION	
T603	⚠1-424-169-11	TRANSFORMER, POWER INSULATED	

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MISCELLANEOUS

REF.NO.	PART NO.	DESCRIPTION	REMARK
	⚠1-230-940-31	RESISTOR ASSY, HIGH-VOLTAGE	
	⚠1-238-368-11	RESISTOR ASSY, HIGH-VOLTAGE	
	⚠1-426-398-11	COIL, DEMAGNETIZATION	
	⚠1-451-333-11	DEFLECTION YOKE (Y29FXC)	
	1-452-032-00	MAGNET, DISK; 10MM ϕ	
	1-452-094-00	MAGNET, ROTATABLE DISK; 15MM ϕ	
	⚠1-452-509-32	NECK ASSY, PICTURE TUBE (NA-308)	
	⚠1-559-346-12	CORD, POWER (WITH CONNECTOR)	
T805	⚠1-439-443-11	TRANSFORMER ASSY, FLYBACK	
V901	⚠8-733-823-05	PICTURE TUBE (A68JYK60X)	

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ACCESSORIES AND PACKING MATERIALS

PART NO.	DESCRIPTION	REMARK
1-556-248-00	CORD (WITH PLUG)	
3-751-978-51	MANUAL, INSTRUCTION (FRENCH)	
4-384-027-01	BAG, PROTECTION	
*4-390-743-01	CUSHION (UPPER) (ASSY)	
*4-390-744-01	CUSHION (LOWER) (ASSY)	
*4-390-749-01	INDIVIDUAL CARTON SPEAKER SYSTEM (SS-XT291)	
	REMOTE COMMANDER	
1-465-556-11	REMOTE COMMANDER, PROGRAMMABLE (RM-698)	
4-395-610-01	COVER, BATTERY (FOR RM-698)	

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